COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaAHF/GVM-Anat I./11	**Course name:** Anatomy I.

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 3 **Per study period:** 26 / 39
Method of study: present

Number of credits: 6

Recommended semester of the course study: 2.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
Active participation in practice lessons, pass dissection oral test, and final exam

Learning outcomes of the course:
Students will gain the basic knowledge about the anatomy of the locomotor system - a description of the bones, muscles and joints as well bones of the domestic animals, in relation to the interspecies differences.

Brief outline of the course:

Recommended literature:
Vrzgulová, M., Rajtová, V., 2002: The osteology and arthrology of domestic mammals.
Rajtová, V., Vrzgulová, M., 2000: The locomotor system of domestic mammals.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 123

A	B	C	D	E	FX
4.88	16.26	25.2	25.2	22.76	5.69

Course teachers:
Guarantor of the course: MVDr. Lenka Krešáková, PhD.
Lecturer: MVDr. Lenka Krešáková, PhD.Doc. MVDr. Eva Petrovová, PhD.Doc. MVDr. Daša Čížková, DrSc.MVDr. Katarína Vdoviaková, PhD.MVDr. Marcela Maloveská, PhD.MVDr. Jana Teleky, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaAHF/GVM-Anat II. 1/11	**Course name:** Anatomy II.

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 3 **Per study period:** 13 / 39
Method of study: present

Number of credits: 0

Recommended semester of the course study: 3.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
Active participation in practice lessons, pass dissection oral tests

Learning outcomes of the course:

Brief outline of the course:
Digestive system, urinary system, male genital organs, female genital organs, respiratory system, sensory organs, anatomy of the birds, anatomy of the laboratory animals, interspecies differences.

Recommended literature:
Rajtová, V., Vrzgulová, M., 1999: Splanchnology of domestic mammals.
Petrovová, E., Flešárová, S., Marettová, E., Maženský, D., Vdoviaková, K., 2014: Anatomy of laboratory animals

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 115

nezap	zap.
1.74	98.26

Course teachers:
Guarantor of the course: MVDr. Katarína Vdoviaková, PhD.
Lecturer: MVDr. Katarína Vdoviaková, PhD.Doc. MVDr. Eva Petrovová, PhD.Doc. MVDr. Daša Čížková, DrSc.MVDr. Lenka Krešáková, PhD.MVDr. Marcela Maloveská, PhD.MVDr. Jana Teleky, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaAHF/GVM-Anat II. 2/14	**Course name:** Anatomy II.

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 3 **Per study period:** 13 / 39
Method of study: present

Number of credits: 8

Recommended semester of the course study: 4.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I.

Conditions for completion of the course:
Active participation in practice lessons, pass dissection oral test, and final exam

Learning outcomes of the course:

Brief outline of the course:
Cardiovascular system, arteries and veins of the head, neck, thoracic and pelvic limb, lymphatic system and endocrine glands, central nervous system, peripheral and autonomic nervous system, plexus lumbalis and plexus sacralis, topography, interspecies differences.

Recommended literature:
Vrzgulová, M., 1998: Angiology (cardiovascular and lymphatic systems).
Rajtová, V., 2001: The nervous system of domestic mammals (sensory organs and endocrine glands).

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 114

A	B	C	D	E	FX
3.51	5.26	31.58	27.19	29.82	2.63

Course teachers:
Guarantor of the course: MVDr. Katarína Vdoviaková, PhD.
Lecturer: MVDr. Katarína Vdoviaková, PhD.Doc. MVDr. Eva Petrovová, PhD.Doc. MVDr. Daša Čížková, DrSc.MVDr. Lenka Krešáková, PhD.MVDr. Marcela Maloveská, PhD.MVDr. Jana Teleky, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-P/ GVM-AnArIn/11	**Course name:** Andrology and artificial insemination
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 2 **Per study period:** 26 / 26 **Method of study:** present	
Number of credits: 2	
Recommended semester of the course study: 8.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course: Participate in the subject Andrology and Artificial Insemination is conditioned to complete the theoretical subjects so as Veterinary Genetics, Pharmacology, Pathological Physiology, Pathological Anatomy,and Clinical Propedeutics.	
Learning outcomes of the course: Result of the education and training in subject Andrology and Artificial Insemination is to reach knowledge to investigate the males of domestic animals from the health aspect for their further usage in biotechnological methods of reproduction.	
Brief outline of the course: (see syllabus) Theoretical part – physiology and pathology of the reproductive functions in the male Practical part – special andrological investigating methods, investigation of the ejaculate and evaluation of its quality	
Recommended literature: LITERATURE: 1. ARTHUR, G.H. - NOAKES, D.E. - PEARSON, H.: Veterinary Reproduction and Obstetrics. ELBS / Bailliere Tindall, 1982. 2. BURKE, T.J.: Small Animal Reproduction and Infertility. Lea & Febiger, Philadelphia, 1986. 3. CURTIS, J.L.: Cattle Embryo Transfer Procedure. July, 1990. 4. HAFEZ, E.S.E.: Reproduction in Farm Animals. Lea & Febiger, Philadelphia, 1987. 5. HUGHES, P. - VARLEY, M.: Reproduction in the Pig. Butterworths. 6. HUNTER, R.H.F.: Physiology and Technology of Reproduction in Female Domestic Animals. Academic Press, London, 1980. 7. McDONALD, L.E.: Veterinary Endocrinology and Reproduction. Lea & Febiger, Philadelphia, 1980. 8. KNOBIL, E. - NEILL, J.D.: The Physiology of Reproduction. Raven Press, 1988. 9. LAING, J.A.: Fertility and Infertility in Domestic Animals. Bailliere Tindall, London, 1979. 10.MORROW, D.A.: Current Therapy in Theriogenology. W.B.Saunders Company, 1986. 11.PETERS, A.R. - BALL, P.J.H.: Reproduction in Cattle. Butterworth, 1987.	

12.ROBERTS, S.J.: Veterinary Obstetrics and Genital Diseases (Theriogenology). Roberts, Woodstock, 1986.
13.ROWLANDS, I.W. - ALLEN, W.R. - ROSSDALE, P.D.: Equine Reproduction. Journal of Reproduction & Fertility, 1982.
14.SALISBURY, G.W. - VanDEMARK, N.L. - LODGE, J.R.: Physiology of Reproduction and Artificial Insemination of Cattle. W.H.Freeman and company, San Francisco, 1978.
15.SQUIRES, E.L. - COOK, V.M. - VOSS, J.L.: Collection and Transfer of Equine Embryos. Animal Reproduction Laboratory Bulle@LH 4
tin, No 1, 1985.
16. Chennoweth, P. J., Lorton, S.P.: Animal Andrology. Theoris and Aplications. ISBN-13: 978 1 78064 316 8. www.cabi.org., 2014, 568 pp.

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 129

A	B	C	D	E	FX
68.99	15.5	9.3	6.2	0.0	0.0

Course teachers:
Guarantor of the course: MVDr. Gabriel Lazar, CSc.
Lecturer: MVDr. Gabriel Lazar, CSc.
Practical teacher: MVDr. Gabriel Lazar, CSc.MVDr. Michal Dolník, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaHTP/GVM-SSE-AaMCoSl/17	**Course name:** Animal and meat control at slaughterhouse

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 3 **Per study period:** 13 / 39
Method of study: present

Number of credits: 0

Recommended semester of the course study: 9.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-HisEmb 2/13 - Histology and embryology and KaAHF/GVM-Phys 2/14 - Physiology and KaBIOaGEN/GVM-Biol/16 - Biology and KaBIOaGEN/GVM-Zool/13 - Zoology and KaEaP/GVM-Epi 2/16 - Epizootology and KaEaP/GVM-Par 2/16 - Parasitology and KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics and KaFaT/GVM-Tox/16 - Toxicology and KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaChBChBF/GVM-BiPh/11 - Biophysics and KaChBChBF/GVM-Ch/16 - Chemistry and KaMBaI/GVM-Mic 2/15 - Microbiology and KaMBaI/GVM-Im/16 - Immunology and KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and KaVDCHZv/GVM-AnHus 2/14 - Animal husbandry and technology of animal production and KaVDCHZv/GVM-FQCPrH 2/16 - Feed quality control and production health of animals and KaVDCHZv/GVM-NutFeed 2/15 - Nutrition and feeding of animals and KaVVP/GVM-LT/16 - Latin terminology and KaŽPVLE/GVM-AnHyW/11 - Animal hygiene and welfare and KaŽPVLE/GVM-ProEth/16 - Professional ethics and KaŽPVLE/GVM-AnE/16 - Animal ethology and KaŽPVLE/GVM-PubVetMed/16 - Public veterinary medicine and K-K/GVM-ObReRD/16 - Obstetrics, reproduction and reproduction disorders and K-P/GVM-Prop 2/16 - Propedeutics

Conditions for completion of the course:
Only healthy non-pregnant students may attend the practical lessons. Credit will be granted only if the presence at the lectures and practical lessons complied with the Organisation and Study Schedule Guidelines of the UVMP in Košice.

Learning outcomes of the course:
Ability to fulfil the duties of Official Veterinarian at meat production (as set by Regulation (EC) 0854/2004).

Brief outline of the course:
- Rules of the safety at work.
- Animal welfare at abattoir.
- Ante mortem health examination and decision about animal.
- Animal slaughter and dressing of carcasses.
- Post mortem examination and decision about meat.

Recommended literature:

- Handouts of the lectures.
- Regulation (EC) 0852/2004 - on the hygiene of foodstuffs.
- Regulation (EC) 0853/2004 - laying down specific hygiene rules for food of animal origin.
- Regulation (EC) 0854/2004 - laying down specific rules for the organisation of official controls on products of animal origin intended for human consumption.
- Regulation (EC) No 1099/2009 - on the protection of animals at the time of killing.
- Regulation (EC) 2075/2005 - laying down specific rules on official controls for Trichinella in meat.
- Regulation (EC) 999/2001 - rules for the prevention, control and eradication of certain transmissible spongiform encephalopathies.
- Regulation (EC) 2073/2005 - on microbiological criteria for foodstuffs.
- Regulation 142/2011 - health rules as regards animal by-products and derived products not intended for human consumption.
- Girard, J.P.: Technology of Meat and Meat Products, Ellis Horwood Ltd.
- Gracey, J.(F)., Collins, D.S.: Meat Hygiene (9e). Bailliére Tindall, London, 1991.

Language of instruction:
English

Notes:
Environment of slaughterhouse where practical lessons are taught requires specific protective clothes and tools.

Evaluation of the course
Total number of evaluated students: 23

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Doc. MVDr. Slavomír Marcinčák, PhD.
Lecturer: Doc. MVDr. Slavomír Marcinčák, PhD.Doc. MVDr. Peter Popelka, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaŽPVLE/GVM-AnE/16	**Course name:** Animal ethology
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 2 **Per study period:** 26 / 26 **Method of study:** present	
Number of credits: 5	
Recommended semester of the course study: 6.	
Level of study: I.II.	
Prerequisites: KaBIOaGEN/GVM-Biol/16 - Biology and KaAHF/GVM-Phys 2/14 - Physiology and KaBIOaGEN/GVM-Zool/13 - Zoology and KaChBChBF/GVM-Ch/16 - Chemistry	
Conditions for completion of the course: Attendance according to the study rules, justification of protocols and seminar papers, success in final test.	
Learning outcomes of the course: Students will gain knowledge of the principles of animal behavior, will be familiar with the behavior of domesticated animals, will have information on the prevention and treatment of primary and secondary abnormal behavioural forms of animals.	
Brief outline of the course: - veterinary ethology, introduction, history - inner behaviour - learned behaviour - behaviour and problems behaviour of cattle, pigs, horses, goats, sheep, zoo animals - behaviour and problems behaviour of dogs, cats, parrots - behaviour problems of pets - therapy	
Recommended literature: 1. Barnard,Ch.: Animal Behaviour, Mechanism, Development, Function and Evolution. Pearson Education Liited 2004. 2. Bowen,J., Bowen,J., Heath,S.: Behaviour problems in small animals: practical advice for the veterinary team. Elsevier Health Sciences, 2005, pp. 283. 3. Jensen,P.: The Ethology of Domestic Animals. An Introductory Text. CABI Publishing. 2005, pp. 218.	
Language of instruction: english	
Notes:	

Evaluation of the course
Total number of evaluated students: 51

A	B	C	D	E	FX
23.53	27.45	27.45	11.76	9.8	0.0

Course teachers:
Guarantor of the course: Prof. MVDr. Jana Kottferová, PhD.
Lecturer: Prof. MVDr. Jana Kottferová, PhD.
Practical teacher: MVDr. Lenka Lešková, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaVDCHZv/GVM-AnHus 1/14	**Course name:** Animal husbandry and technology of animal production

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 3.

Level of study: I.II.

Prerequisites: KaBIOaGEN/GVM-Biol/16 - Biology and KaVVP/GVM-LT/16 - Latin terminology

Conditions for completion of the course:
Participation the exercises according to the Study Regulations.
2. Credit test completed with a minimum success rate of 51%.

Learning outcomes of the course:
The student acquires knowledge about the importance of breeding animals, their domesticated, selection and breeding as well as the use and orientation of individual breeds of farm animals.

Brief outline of the course:
Importance of animal husbandry
Domestication
Production trends for the various livestock species
The Constitution
Exterior and interior livestock
Selection and Breeding
Breeding and Reproduction
The distribution of various breeds by commercial focus

Recommended literature:
Duran, A. 2001. Animal breeding practical book, UVLF, ISBN 80-88985-46-3.
G. Wiener: Animal Breeding. Mc Milan Education Ltd. 1994, ISBN 0-333-57298-X, 208,pp.
P. Rossdale: Horse Breeding, 2003, Equestrian Library (David & Charles English ISBN10 0715316559.
F. McCullough: How To Breed Goats And Manage Gestation A Simple Guide, 2012, Goat Knowledge , English, ISBN10 1781650454.
H. Joe Bearden et al.: Applied Animal Reproduction, 2003, Upper Saddle RiverUnited States, ISBN10 0131128310.
Swan, J. et al.: The Principles of Breeding Livestock - With Information on Heredity, Mendel's Laws, Selection and Improvement, 2011, AlcesterUnited Kingdom, ISBN10 1446530124.

Language of instruction:

English language

Notes:

Evaluation of the course
Total number of evaluated students: 72

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. František Zigo, PhD.
Lecturer: MVDr. František Zigo, PhD.MVDr. Zuzana Farkašová
Practical teacher: MVDr. František Zigo, PhD.MVDr. Zuzana Farkašová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaVDCHZv/GVM-AnHus 2/14	**Course name:** Animal husbandry and technology of animal production

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 7

Recommended semester of the course study: 4.

Level of study: I.II.

Prerequisites: KaBIOaGEN/GVM-Biol/16 - Biology and KaBIOaGEN/GVM-Zool/13 - Zoology and KaVVP/GVM-LT/16 - Latin terminology and KaVDCHZv/GVM-FeedPla/13 - Feed plant biology and toxic plants

Conditions for completion of the course:
1. Participation the exercises according to the Study Regulations.
2. Two credit test completed with a minimum success rate of 51%.
3. Exam the subsequent evaluation by the Study Regulations.

Learning outcomes of the course:
The student acquires knowledge about the importance of breeding animals, their domesticated, selection and breeding as well as the use and orientation of individual breeds of farm animals.

Brief outline of the course:
Production trends for the various livestock species
The Constitution
Exterior and interior livestock
Selection and Breeding
Breeding and Reproduction
The distribution of various breeds by commercial focus

Recommended literature:
Duran, A. 2001. Animal breeding practical book, UVLF, ISBN 80-88985-46-3.
G. Wiener: Animal Breeding. Mc Milan Education Ltd. 1994, ISBN 0-333-57298-X, 208,pp.
P. Rossdale: Horse Breeding, 2003, Equestrian Library (David & Charles English ISBN10 0715316559. F. McCullough: How To Breed Goats And Manage Gestation A Simple Guide, 2012, Goat Knowledge , English, ISBN10 1781650454.

Language of instruction:
English language

Notes:

Evaluation of the course
Total number of evaluated students: 89

A	B	C	D	E	FX
7.87	14.61	38.2	23.6	15.73	0.0

Course teachers:
Guarantor of the course: MVDr. František Zigo, PhD.
Lecturer: MVDr. František Zigo, PhD.MVDr. Zuzana Farkašová
Practical teacher: MVDr. František Zigo, PhD.MVDr. Zuzana Farkašová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaŽPVLE/GVM-AnHyW/11	**Course name:** Animal hygiene and welfare

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 3 **Per study period:** 26 / 39
Method of study: present

Number of credits: 5

Recommended semester of the course study: 5.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Phys 1/11 - Physiology and KaAHF/GVM-Phys 2/14 - Physiology and KaVDCHZv/GVM-AnHus 2/14 - Animal husbandry and technology of animal production

Conditions for completion of the course:
100 % participation in practical lessons and passing credit test.

Learning outcomes of the course:

Brief outline of the course:
Thermal-humidity factors of microclimate in animal houses in relation to the health status of animals and their productivity. Air flow requirements in relation to animal health
Air conditioning of housing objects. Radiant and convective heating. Natural and forced ventilation of animal houses. Solar radiation and effect of biologically active portions of solar spectrum on animals. Visible light in animal production.
The role of veterinarians in the process of siting and designing animal farms and individual animal houses. Hygienic requirements on building materials and constructions intended for animal production.
Veterinary-hygienic protection of animal farms. External and internal sources of microbial contamination. The black and white system. Hygienic planning programmes, protection of the environment.
Hygiene and technology of housing of farm animals (cattle, pig, sheep, poultry, horses). Bioclimatological factors in animal houses. Welfare problems in diferent housing systems. Directives of EU Directives and National laws.
Animal welfare. Legislation EU. Transport and slaughter of animals. Hygiene and technology of laboratory and companion animals.
Organic farming. Principles, health problems and welfare.

Recommended literature:
1.Gregová, G., Vargová, M., Ondrašovičová, O., Sasáková, N., Veszelits Laktičová, K.: Animal hygiene and welfare, Košice, 2014.
2. Wathes, C.M., Charles, D.R.: Livestock housing, CAB International, 1994.
3. Vaarst, M. et all.: Animal health and welfare in organicmagriculture, CABI, Publishing, 2004.
4. Aland, A., Madec, F.: Sustainable animal production, wageningen Academic Publishing, 2009.

5. SZÜCS, E. et all.: Farm animal Welfare, Environment & Food Quality Interaction Studies, ISBN 978-960-89849-0-5, 2007, pp. 73-168.

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 107

A	B	C	D	E	FX
27.1	28.04	22.43	14.95	7.48	0.0

Course teachers:
Guarantor of the course: MVDr. Gabriela Gregová, PhD.
Lecturer: MVDr. Gabriela Gregová, PhD.Ing. Milada Vargová, PhD.
Practical teacher: MVDr. Gabriela Gregová, PhD.Ing. Milada Vargová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaPAaPF/GVM-ApCy/11	**Course name:** Applied cytology
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 1 / 2 **Per study period:** 13 / 26 **Method of study:** present	
Number of credits: 3	
Recommended semester of the course study: 7.	
Level of study: I.II.	
Prerequisites: KaPAaPF/GVM-PaA 1/11 - Pathological anatomy and KaAHF/GVM-HisEmb 2/13 - Histology and embryology and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology	
Conditions for completion of the course: credit - attendance of practical lessons (one absence is tolerated) exam - written form	
Learning outcomes of the course: Students will obtain knowledge about cytology: 1. general information (e.g. categories for cytological interpretation, oncocytology etc.) 2.cytology of different systems in the body (e.g. lymph node, skin, mammary gland)	
Brief outline of the course: 1. General information about this diagnostic method 2. Main defects in smears preparation 3. Categories for cytological interpretation 4. Cytology of different organs systems	
Recommended literature: BAKER R. - LUMSDEN J. H. Colory Atlas of Cytology of the Dog and Cat, Mosby Inc., 2000, ISBN: 0-8151-0402-2 COWEL L. R. – TYLER D. R. – MEINKOTH J. H. – DENICOLA B. D. Diagnostic cytology and hematology of the dog and cat. 3. vyd. St. Louis, MO : Mosby Elsevier, 2008. ISBN: 9780323034227 RASKIN R. E. - MEYER D. J. Atlas of Canine and Feline Cytology, W. B. Saunders Company, 2001, 430 s., ISBN: 0-7216-6335-4	
Language of instruction: English language	
Notes:	

Evaluation of the course
Total number of evaluated students: 25

A	B	C	D	E	FX
12.0	20.0	48.0	16.0	4.0	0.0

Course teachers:
Guarantor of the course: Prof. MVDr. Zuzana Ševčíková, PhD.
Lecturer: Prof. MVDr. Zuzana Ševčíková, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaPAaPF/GVM-ApVHae/16	**Course name:** Applied veterinary haematology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 6.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaAHF/GVM-Phys 2/14 - Physiology

Conditions for completion of the course:
The student must attend classes. One classes can miss without compensation, other missed classes must compensate. There is one credit test in the end of the course - at least 51% correct answers are required.

Learning outcomes of the course:
The students receive knowledge about importance of haematological examination for making diagnosis. He obtains practical skills in analysis and determination of haematological parameters and understands their meanings in clinical practice (interpretation of results). In addition, students receive principal knowledge about blood and its components specificity and haemopoietic organs in various specie s(mammals, birds, fish) and common blood disorders. He /she can evaluate and interprete haematology blood test results and explain them in relation to the etiopathogenesis and history of patient (case reports).

Brief outline of the course:
- History of heamatology.
- Reference range and reference interval.
-Stages of analytical examination.
- Haemopoiesis.
-Disorders of mammalian red blood cells and haemopietic organs.
-Disorders of mammalian white blood cells and haemopoietic organs.
- Disorders of mammalian haemostasis and haemoipoietic organs.
- Avian haematology.
-Reptilian haematology.
-Fish haematology.
- Blood transfusion and bone marrow transplantation.

Recommended literature:
Reagan, WJ, Rovira, ASRI, De Nicola, DB. Veterinary haematology. Atlas of common domestic and non-domestic species. 2nd Edition, Wiley-Blackwell, 2008, p. 112, ISBN 978-0-8138-2809-1.

Thrall, MA. Veterinary hematology and clinical chemistry. Lippincott Williams and Wilkins, 2004, p. 518, ISBN 0-7817-6850-0.

Language of instruction:
English language

Notes:

Evaluation of the course
Total number of evaluated students: 116

A	B	C	D	E	FX
74.14	16.38	6.03	2.59	0.0	0.86

Course teachers:
Guarantor of the course: Prof. MVDr. Zita Faixová, PhD.
Lecturer: Prof. MVDr. Zita Faixová, PhD.MVDr. Elena Piešová, PhD.MVDr. Lucia Tarabová, PhD.MVDr. Zuzana Maková, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaMBaI/GVM-ApVi/15	**Course name:** Applied virology
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 2 **Per study period:** 26 / 26 **Method of study:** present	
Number of credits: 3	
Recommended semester of the course study: 6.	
Level of study: I.II.	
Prerequisites: KaAHF/GVM-HisEmb 2/13 - Histology and embryology and KaBIOaGEN/GVM-Biol/16 - Biology and KaChBChBF/GVM-Ch/16 - Chemistry and KaBIOaGEN/GVM-Gen/16 - Genetics and KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-Phys 2/14 - Physiology and KaMBaI/GVM-Mic 1/11 - Microbiology	
Conditions for completion of the course: The conditions for graduation of Applied virology is active participation on practical classes, elaboration of protocols and written test with score with more than 51%.	
Learning outcomes of the course: Students become familiar with the mechanisms of virus infections and methods used in virus diagnostics.	
Brief outline of the course: • Overview of virus diseases in different animal species, including zoonoses. • Pathogenetic mechanisms of virus infection (persistent infections, virus induced immunosuppression, oncogenesis). • Mechanisms of virostatics. • Diagnostic approaches in antigenic and genetic characterisation of viruses.	
Recommended literature: MacLachlan N. J. and Dubovi E. J.: Fenner´s Veterinary virology, fourth edition. Elsevier Inc., 2011, ISBN 978-0-12-375158-4 Lectures – actual themes.	
Language of instruction: English	
Notes: Applied virology is a subject of summer semester. The condition for opening is minimum of 5 and maximum of 6 students.	

Evaluation of the course
Total number of evaluated students: 2

A	B	C	D	E	FX
0.0	0.0	0.0	100.0	0.0	0.0

Course teachers:
Guarantor of the course: MVDr. Tomáš Csank, PhD.
Lecturer: MVDr. Tomáš Csank, PhD.RNDr. Ján Király, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-O/GVM-AssisRep/17 | **Course name:** Assisted reproduction

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 10.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaBIOaGEN/GVM-Biol/16 - Biology and KaAHF/GVM-Phys 2/14 - Physiology and KaAHF/GVM-HisEmb 2/13 - Histology and embryology and KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics and K-K/GVM-ObReRD/16 - Obstetrics, reproduction and reproduction disorders and K-P/GVM-AnArIn/11 - Andrology and artificial insemination and K-MZ/GVM-GeSAn 2/16 - General surgery and anesthesiology

Conditions for completion of the course:
100% attendance at practical lessons, practising in the clinic

Learning outcomes of the course:
The student will acquire theoretical knowledge and the basics of manual dexterity, whitch create preconditions for his successful implementation in commercial or experimental practice implementing a biotech or biotechnological methods (assisted reproduction).

Brief outline of the course:
The student will acquire theoretical knowledge and the basics of manual dexterity, whitch create preconditions for his successful implementation in commercial or experimental practice implementing a biotech or biotechnological methods (assisted reproduction).

Recommended literature:
provided by teacher (hand-outs)

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 7

A	B	C	D	E	FX
14.29	28.57	57.14	0.0	0.0	0.0

Course teachers:
Guarantor of the course: MVDr. Róbert Link, PhD.
Lecturer: MVDr. Róbert Link, PhD.

Practical teacher: MVDr. Róbert Link, PhD.Doc. MVDr. Vladimír Macák, PhD.Doc. MVDr. Ján Pošivák, PhD.RNDr. Terézia Pošiváková, PhD.MVDr. Miroslava Popelková
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaŽPVLE/GVM-BaEc/11	**Course name:** Basics of ecology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 2.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
75 % participation in practical lessons Passing written credit test.

Learning outcomes of the course:

Brief outline of the course:
The purpose of ecology is to provide knowledge of the way how the world works and provide evidence on the interdependence between the natural world and people. A better understanding of ecological systems will allow students to predict the consequences of human activity on the environment.

Recommended literature:
Ondrašovičová, O., Vargová, M., Sasáková, N., Laktičová, K., Gregová, G.: Basics of ecology, Textbook, Košice, 2012.
Wheater, P.C., Bell, R.J., Cook, A.P.: Practical Field Ecology: A Project Guide, Willey-Blackwell, Chichester, West Sussex, UK, 2011.

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 46

A	B	C	D	E	FX
30.43	28.26	32.61	6.52	2.17	0.0

Course teachers:
Guarantor of the course: MVDr. Mária Vargová, PhD.
Lecturer: MVDr. Mária Vargová, PhD.
Practical teacher: RNDr. Terézia Pošiváková, PhD.MVDr. Mária Vargová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaMBaI/GVM-BGE/11	**Course name:** Basics of genetic engineering

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 3 **Per study period:** 13 / 39
Method of study: present

Number of credits: 3

Recommended semester of the course study: 6.

Level of study: I.II.

Prerequisites: KaBIOaGEN/GVM-Gen/16 - Genetics and KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaŽPVLE/GVM-PubVetMed/16 - Public veterinary medicine and KaŽPVLE/GVM-ProEth/16 - Professional ethics and KaVDCHZv/GVM-AnHus 2/14 - Animal husbandry and technology of animal production

Conditions for completion of the course:
Credit: 100 % active participation on the lessons and elaboration of seminary work. Exam is written (test).

Learning outcomes of the course:

Brief outline of the course:
The subject will mediate information on potential application of DNA methods in agriculture, health services and in environmental management and protection. Practical lessons are model-focused on work with recombinant DNA, „in vitro“ mutagenesis, isolation of plasmid and chromosomal DNA, construction of gene library, obtaining genes with required functions, and quantification of expression of recombinant DNA in relation to the role of promoters, transpozones and plasmid DNA in expression of functional genes. It will allow one to understand principles of diagnostics of bacteria and viruses by means of restriction-endonuclease profile, PCR and DNA probes and diagnostics of hereditary diseases.

Recommended literature:
Ausubel, F.M., Brent, R., Kingston, R.E., Moore, D.D., Seidman, J.G., Smith, J.A., Struhl, K.: Current Protocols in Molecular Biology. Greene Publ. Assoc. and Wiley - Interscience, New York, 1989.
Holoda E., Pistl J., Pilipčinec E.: Microbiology. General microbiology and bacterial genetics, Part 2. University of Veterinary Medicine in Košice. 2008
McPherson, M.J., Quirke, P. and Taylor, G.R.: PCR a practical approach. Oxford University Press, 1993, str. 253
Ratledge, C., Kristiansen, B.: Basic biotechnology. Cambridge University Press: http://books.google.com/
Watson, D. J., Hopkins, N.H., Roberts, J.W., Steiz, J.A., Weiner, A.M.: Molecular Biology of the Gene. The Benjamin Cummings Publishing comp., Inc., California

Language of instruction:
English

Notes:
Minimal count of students for compulsory optional subject Basics of genetic engineering is 3.
Maximal count of students for this subject is 10.

Evaluation of the course
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: MVDr. Jana Koščová, PhD.
Lecturer: MVDr. Jana Koščová, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-K/ GVM-BHrSh/11	**Course name:** Basics of horse shoeing

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 8.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:
Hoof anatomy, Hoof triming, Horse Shoeing Without Nails, Make horseshoe

Recommended literature:
Recommended study literature:
1. Stashak TS: Adams Lameness in Horses 5th Ed., Lippincott Williams and Wilkins 2001, pp.1008
2. Pollitt CC: Color Atlas of the Horse´s Foot, Mosby, 2000,
3. M. W. Ross, S. J. Dyson: Diagnosis and Management of Lamenness. Elsevier Sunders. 2011

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 85

A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: MVDr. Zdeněk Žert, CSc.
Lecturer: MVDr. Zdeněk Žert, CSc.
Practical teacher: MVDr. Zdeněk Žert, CSc.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaŽPVLE/GVM-BsLVM/16	**Course name:** Basics of law for veterinary medics

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 3.

Level of study: I.II.

Prerequisites: KaVVP/GVM-LT/16 - Latin terminology

Conditions for completion of the course:
Conditions for granting credit is an active participation in practical exercises in the range overwrite in internal regulation of the UVLPh - study schedule. Each student is required to write the test and obtain a minimum of 51% of the points, this is a condition for granting credit in the last week of the course. The test results in a ratio of 0,4 count towards the final assessment, which includes an oral exam that the student must complete (the evaluation of at least 51 points out of 100).

Learning outcomes of the course:
The main learning outcomes that a student after completing the course gets a clear understanding of the functioning of the state mechanism, with all phenomea of law as an excellent tool for good orientattion in the issues related to the public and partly to the forensic veterinary medicine.

Brief outline of the course:
The law, sources of law, the scope of legal norms, state mechanism, infringent proceedings, administartive proceedings, criminal proceedings

Recommended literature:
Takáčová et al.: Public Veterinary Medicine

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: Doc. MVDr. Daniela Takáčová, PhD.
Lecturer:
Practical teacher: Doc. MVDr. Daniela Takáčová, PhD.

Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaFaT/GVM-BsScW/16	**Course name:** Basics of scientific work
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 0 / 2 **Per study period:** 0 / 26 **Method of study:** present	
Number of credits: 3	
Recommended semester of the course study: 3.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course: Information retrieval; Power point presentation; Template of scientific paper	
Learning outcomes of the course: protokols Exam	
Brief outline of the course: Brief outline of the course(course syllabus): Theory: Introduction, knowledge management, the basis of academic ethics. Web library, Library-information systems; researcher - user of library and information services. Genesis of secondary information resources; classification of databases; Secondary information sources, brief characteristics of databases, select the database by topic, fundamental differences between databases. Principles of biobliografic search strategy. Scientific methods, principles of scientific work. Evaluation of Science, indicators of scientific work, scientific publications. The basic principles of writing scientific papers. Citation, citation styles, citation category. Specialized information sources, platforms, databases. Basic differences in the assessment of journals, electronic magazines, DOI –digital object indentifiers. Evaluation criteria of scientific work, category of publications Practice The Internet, Google, Google-scholar; Scopus; Web of Science; Proquest; Endnote; EBSCO; European Pharmacopoea on line; CAB; Current Contents Conect CCC; Directory of Open Access Journals – DOAJ, Science-Direct; Citation index Final Preparation of final work. Bibliography and presentations from the available information sources. RSS alerts. The literary summary on a given theme. Selection of relevant databases. Literature review. Determine the quality of selected scientific journals. PROTOCOL	

Recommended literature:

Bodnárová, L. - Legáth, J. et all: Basic of scientific work. Košice : UVL, 2009, 138 pp.
Horowitz, H.: Knowing where to look. The ultimate guide to research. Cincinnati, Ohio : Writer`s Digest Book 1984 436 pp.
http://www.uvlf.sk/sk/virtual-library

Language of instruction:

english

Notes:

Evaluation of the course

Total number of evaluated students: 22

A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0

Course teachers:

Guarantor of the course: MVDr. Libuša Bodnárová
Lecturer:
Practical teacher: MVDr. Libuša Bodnárová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaŽPVLE/GVM-BDisDA/17	**Course name:** Behaviour disorders in domestic animals

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 2

Recommended semester of the course study: 9.

Level of study: I.II.

Prerequisites: KaŽPVLE/GVM-AnE/16 - Animal ethology and KaŽPVLE/GVM-AnHyW/11 - Animal hygiene and welfare

Conditions for completion of the course:
Justification of protocols and seminars works, success in final test.

Learning outcomes of the course:
By completing the course, students will be able to assess the aspects of the behavior of the pets in a qualified way and in the case of abnormalities, to solve their therapies.

Brief outline of the course:
- Psychosocial relationships man - animal
- Abnormal behavior and options of therapy
- basic forms of behavioural disorders in dogs, their prevention and therapy
- basic forms of behavioural disorders in cats, their prevention and therapy
- basic forms of behavioural disorders in pets birds, their prevention and therapy

Recommended literature:
1. Bowen,J., Bowen,J., Heath,S.: Behaviour problems in small animals: practical advice for the veterinary team. Elsevier Health Sciences, 2005, pp. 283.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 2

A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: Prof. MVDr. Jana Kottferová, PhD.
Lecturer:

Practical teacher: Prof. MVDr. Jana Kottferová, PhD.MVDr. Lenka Lešková, PhD.MVDr. Tatiana Weissová, PhD.
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaChBChBF/GVM-BiCh 1/11	**Course name:** Biochemistry
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 3 **Per study period:** 26 / 39 **Method of study:** present	
Number of credits: 0	
Recommended semester of the course study: 2.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course: 1. Participation at practicals 100% and performation of all experiments with presentation of protocols. In case of absence (max. 3 times) at a practical lesson it is necessary to present the topic in the form of seminar work next week or in the credit week. 2. To pass successfully 2 written tests (with minimal evaluation of mark E). 3. Average mark of tests (written in the begining of every lesson) increases the percentage gain of students.	
Learning outcomes of the course: Student is able to explain the basic principles of enzyme catalysed reaction, of bioenergetics, of metabolic regulation at level of cell and animal organism, respectively. He is able te read metabolic map from saccharide, lipid and steroid metabolism point of view.	
Brief outline of the course: Enzymology, kinetics of enzyme reactions, coenzymes, bioenergetic metabolism, principles of thermodynamics, respiratory chain, oxidative phosphorylation, metabolic regulation, hormonal control, biological oxidation, tricarboxylic acid cycle, metabolism of saccharides (glycolysis, pentose phosphate pathway, gluconeogenesis, glycogenolysis, glycogenesis), lipid metabolism (fatty acid oxidation, fatty acid synthesis), biosynthesis of triacylglycerols and phospholipids, metabolism of eicosanoids, cholesterol metabolism (synthesis and its conversion), lipoprotein metabolism, synthesis and utilization of ketone bodies.	
Recommended literature: Harvey, R.A., Ferrier, D.R.: Lippincott´s Illustrated Reviews: Biochemistry. 5th Edition. Baltimore, Lippincott Wiliams and Wilkins, 2011, 521pp. Koolman, J., Roehm, K. H.: Color Atlas of Biochemistry. 2nd Edition. Stuttgart; New York : Georg Thieme Verlag, 2005, 476 pp.	

Nelson, D. L., Cox, M. M.: Lehninger Principles of Biochemistry. 4th Edition. New York : W. H. Freeman and Company, 2005, 1119 pp.
Stryer, L.: Biochemistry. 3rd Edition. New York : W. H. Freeman and Company, 1988, 1089 pp.
Heinová, D. et al.: Practical Course in Biochemistry I, Košice : UVLF, 2010, 105 pp.

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 123

nezap	zap.
5.69	94.31

Course teachers:
Guarantor of the course: Doc. MVDr. Zuzana Kostecká, PhD.
Lecturer: Doc. MVDr. Zuzana Kostecká, PhD.Doc. MVDr. Dagmar Heinová, CSc.MVDr. Mária Milkovičová, PhD.
Practical teacher: Doc. MVDr. Dagmar Heinová, CSc.MVDr. Mária Milkovičová, PhD.MVDr. Jana Šimková, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaChBChBF/GVM-BiCh 2/14	**Course name:** Biochemistry

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 3 **Per study period:** 26 / 39
Method of study: present

Number of credits: 10

Recommended semester of the course study: 3.

Level of study: I.II.

Prerequisites: KaChBChBF/GVM-BiPh/11 - Biophysics and KaBIOaGEN/GVM-Biol/16 - Biology and KaChBChBF/GVM-Ch/16 - Chemistry and KaChBChBF/GVM-BiCh 1/11 - Biochemistry

Conditions for completion of the course:
1. Participation at practicals 100% and performation of all experiments with presentation of protocols. In case of absence (max. 3 times) at a practical lesson it is necessary to present the topic in the form of seminar work next week or in the credit week. 2. To pass successfully 2 written tests (with minimal evaluation of mark E). 3. Average mark of tests (written in the begining of every lesson) increases the percentage gain of students.

Learning outcomes of the course:
Student is able to read metabolic map from saccharide, lipid, steroid, protein, amino acid and nucleic acid metabolism point of view. He knows metabolism specifics at subcellular, cellular and organ levels in animal organism and he is prepared to understand the pathological processes explained in next study subjects as pathological and clinical biochemistry.

Brief outline of the course:
Protein catabolism,
amino acid metabolism (transamination, deamination, decarboxylation),
urea cycle,
metabolism of purine and pyrimidine nucleotides,
metabolism of nucleic acids (DNA replication, DNA transcription),
proteosynthesis, co- and post-translational modifications,
biochemistry of digestion in monogastric and polygastric animals,
biochemistry of liver,
biochemistry of blood,
biochemistry of kidney and acid-base balance,
biochemistry of muscle and connective tissue,
biochemistry of nerve system.

Recommended literature:
Harvey, R.A., Ferrier, D.R.: Lippincott´s Illustrated Reviews: Biochemistry. 5th Edition. Baltimore, Lippincott Wiliams and Wilkins, 2011, 521pp. Koolman, J., Roehm, K. H.: Color

Atlas of Biochemistry. 2nd Edition. Stuttgart; New York : Georg Thieme Verlag, 2005, 476 pp. Nelson, D. L., Cox, M. M.: Lehninger Principles of Biochemistry. 4th Edition. New York : W. H. Freeman and Company, 2005, 1119 pp. Stryer, L.: Biochemistry. 3rd Edition. New York : W. H. Freeman and Company, 1988, 1089 pp.
Kostecká, Z. et al. Practical Course in Biochemistry II., Košice: UVLF, 2012. 116 pp.

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 108

A	B	C	D	E	FX
12.04	20.37	20.37	32.41	8.33	6.48

Course teachers:
Guarantor of the course: Doc. MVDr. Zuzana Kostecká, PhD.
Lecturer: Doc. MVDr. Zuzana Kostecká, PhD.MVDr. Mária Milkovičová, PhD.
Practical teacher: Doc. MVDr. Dagmar Heinová, CSc.MVDr. Mária Milkovičová, PhD.MVDr. Jana Šimková, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaBIOaGEN/GVM-Biol/16	**Course name:** Biology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 3 **Per study period:** 26 / 39
Method of study: present

Number of credits: 6

Recommended semester of the course study: 1.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
Participation on the all practical lessons
Reports from all practical lessons
Credit test - minimum 51 %

Learning outcomes of the course:

Brief outline of the course:
The study of biology aims to increase understanding of living systems, their hierarchy and structure based on the cellular level and to consider the systems in relationship to the self and other organisms in the natural environment. It is focused on the understanding of basic structure of the cell and the understanding of basic cellular activities.

Recommended literature:
Luptáková, L., Tomko, M., Valenčáková, A., Špalková, M., 2018: Biology for Veterinary Medicine. ESAP UVLF, Košice, 217 s. ISBN 978-80-8077-590-2.
Luptáková, L., Valenčáková, A., Toropilová, D., Špalková, M., 2017: Biology - Practical lessons . ESAP UVLF, Košice, 101s. ISBN 978-80-8077-537-7.
Raven, P.H., Johnson, G.B., 1989: Biology. 2nd edition, Times Mirror/Mosby College Publishing, St. Louis, USA
John H. and Hopson, Janet L. And Veres, Ruth C. Postlethwait: Biology! Bringing science to life. McGraw-Hill, 1991, 277 s. ISBN-13: 978-0078379734

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 92

A	B	C	D	E	FX
4.35	15.22	20.65	32.61	27.17	0.0

Course teachers: Guarantor of the course: Doc. MVDr. Lenka Luptáková, PhD. Lecturer: Doc. MVDr. Lenka Luptáková, PhD. Practical teacher: MVDr. Michaela Špalková, PhD.
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaŽPVLE/GVM-BStInf/13	**Course name:** Biomedical statistics and informatics
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 1 / 2 **Per study period:** 13 / 26 **Method of study:** present	
Number of credits: 4	
Recommended semester of the course study: 2.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course: To obtain the exam, it is necessary to successfully pass the electronic / written test based on computer technology to a minimum of 51 points out of a total of 100 points. The final assessment of the subject consists of points obtained from the bases of statistics and the basics of computing. The final result is based on a the classification scale referred to in Art. 20 VP č. 2 UVLF.	
Learning outcomes of the course: We can characterize the subject's subject profile at the following points: • Understanding the fundamentals of computer science • Working alone and using OS MS Windows • Separate advanced work with MS Office (creating documents and templates, tables, working with functions and formulas, using graphs, creating interactive presentations) • Internet use (search, use of information resources, communication, protection of personal data, social networks) • Understanding the fundamentals of statistics • Graduates have basic knowledge required in order to interconnect an experiment – appropriate statistical method. • In the preparation of the experiment, they are able to suggest a particular procedure and perform appropriate assessment of such procedure using the knowledge.	
Brief outline of the course: 1st week: Explanation of the essential terms in statistics and Introduction to the descriptive statistics, measurement of the location (arithmetic mean, median, mode) 2nd week: Measurement of the spread (range, quantiles, the variance and standard deviation, coefficient of the variation) 3rd week: Introduction and definition of the probability, distribution(binomial, poisson, normal) 6th week: Applications of the One-Sample t Test 4th week: Applications of the Paired t Test, Two-Sample t Test and F Test 5th week: Applications of the Two-Sample t Test and Chi-Square Test 6th week: Introduction to the One-Way Analysis of Variance and application of the One-Way ANOVA	

7th week: Application of the linear regression and correlations
8th week: Introduction into informatics (Explanation of the essential terms in informatics, information technology in statistics, compare of the programs.)
9th week: Introduction into operating systems MS Windows
10th week: Introduction into MS OFFICE
11th – 13th week: Work with MS OFFICE (creating documents and templates, tables, working with functions and formulas, using graphs, creating interactive presentations)

Recommended literature:
Aviva Petrie and Paul Watson: Statistics for Veterinary and Animal Science, June 9, 1999, ISBN 2. Wayne W. Daniel and Chad L. Cross: Biostatistics: A Foundation for Analysis in the Health Sciences, January 9, 2013, 3. Bernard Rosner: Fundamentals of Biostatistics, August 19, 2010 4. Marcello Pagano and Kimberlee Gauvreau: Principles of Biostatistics, March 9, 2000 5. John Walkenbach et all., Office 2007 Bible, Wiley Publishing, Inc., 2007 ISBN 978-0-470-04691-3 6. John Walkenbach, Excel 2007 Bible, Wiley Publishing, Inc., 2007 , ISBN-10: 0-470-04403-9 7. Manuals and tutorials on the web page

Language of instruction:
English

Notes:
Subject is provided in the summer semester

Evaluation of the course
Total number of evaluated students: 89

A	B	C	D	E	FX
23.6	39.33	25.84	11.24	0.0	0.0

Course teachers:
Guarantor of the course: Ing. Ladislav Takáč, PhD.
Lecturer: Ing. Ladislav Takáč, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaChBChBF/GVM-BphMthMe/15	**Course name:** Biophysical methods in medicine

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 3 **Per study period:** 0 / 39
Method of study: present

Number of credits: 3

Recommended semester of the course study: 2.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
Credit and Exam

Learning outcomes of the course:

Brief outline of the course:
1st week: Low and high temperature in medicine. Demonstrations.
Ultraviolet radiation in diagnostics and therapy. Demonstrations.
2nd week: Electrotherapy. Demontrations of ECG and EMG.
Excursion on rehabilitation department: physical therapy.
3rd week: Optics in medicine. Endoscopy. Optics in ophtalmology. Lasers in medicine.
4th week: Excursion on Clinics of horses: endoscopy. Excursion on Safarik University: lasers.
5th week: Diagnostic application of ultrasound. Demonstrations of A, B and M modes.
6th week: Excursion on Clinics of small animals – Internal medicine: diagnostic ultrasound.
7th week: Therapeutic aplication of ultrasound. US in physical therapy. ESWL and other methods.
8th week: Ionizing radiation in medicine. X – radiation in diagnostics: radiography, fluoroscopy.
9th week: Excursion on Division of surgery, orthopaedics, r#ntgenology: radiography.
10th week: Modern X – ray diagnostic methods: computed tomography, CT angiography.
11th week: Methods in nuclear medicine. Magnetic resonance imaging.
12th week: Excursions on Institute of molecular and nuclear medicine and MRI department in Louis Pasteur Hospital: gama camera, PET and MRI.
13th week: Students´ presentations and evaluation of the subject. Credit.

Recommended literature:
1. Power Point Presentations accessible on biophysical intranet web pages.
2. Staničová J.: Biophysics for veterinary medicine, UVM, 2007.
3. Tarján I. et al.: An introduction to biophysics with medical orientation, Akadémiai Kiadó, Budapest, 1987

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 46

A	B	C	D	E	FX
45.65	21.74	19.57	6.52	6.52	0.0

Course teachers:
Guarantor of the course: Doc. RNDr. Jana Staničová, PhD.
Lecturer:
Practical teacher: Doc. RNDr. Jana Staničová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaChBChBF/GVM-BiPh/11	**Course name:** Biophysics
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 2 **Per study period:** 26 / 26 **Method of study:** present	
Number of credits: 5	
Recommended semester of the course study: 1.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course:	
Learning outcomes of the course:	
Brief outline of the course: Scheme of lectures: 1. THE STRUCTURE OF THE MATTER. Atomic and molecular background of structure of living matter. Methods of structure analysis. Basic forms of matter. Atoms. The principal characteristics of quantum theory. Ionization and excitation. Atom nucleus. Radioactive isotopes. The decay law. Physical, biological and effective half-life. 2. THE STRUCTURE OF MATTER - CONTINUE Molecules. Gases. The universal gas law and its interpretation in respiration. Water: structure, physical properties and function. Dispersed systems. Emulsions and suspensions. Surface tension and the lung. Viscosity. Sedimentation of blood. Dialysis. 3. TRANSPORT PROCESSES. THERMODYNAMIC BASE OF LIFE PROCESSES Thermodynamics in general. The first and the second law of thermodynamics. Internal energy. Entropy – two definitions. Characterization of biological systems from thermodynamics point of view. Open systems. 4. TRANSPORT PROCESSES - CONTINUE Flow of fluids and gases. Basic laws. Laminar and turbulent flow. Blood circulation. Heart as source of mechanical energy. Blood pressure. Diffusion and osmosis. Basic definitions and laws. Osmotic and oncotic pressure. Isotonic solutions. 5. TRANSPORT PROCESSES – CONTINUE Transport across biological membranes. Structure and function of cell membrane. Passive transport across membrane. The diffusion of neutral solute molecules across membranes. Passive transport of ions. Active transport across membrane. 6. THE BIOPHYSICS OF EXCITATION PROCESSES	

Electric properties of resting cells. Ion composition of resting cell. Donnan equilibrium. Nernst and Goldman equation. Resting potential.
7. THE BIOPHYSICS OF EXCITATION PROCESSES – CONTINUE
Action membrane potential – formation and propagation. Action potential of fiber, heart and brain. Electrocardiography. Electromyography. Electroencephalography.
8. RADIATION. THE PHYSICAL BACKGROUND OF THE APPLICATION OF RADIATION IN MEDICINE
The complete electromagnetic spectrum. Nonionizing and ionizing radiation.
Visible light. Human eye. Vision.
9. NONIONIZING RADIATION.
Emission, absorption and fluoroscence. Absorption spectrophotometry.
Thermal radiation. Thermography. Biological effects of ultraviolet radiation.
10. IONIZING RADIATION
Interaction of photons and charged particles with matter. Photoelectric effect. Compton effect.
Pair production. Interaction of #-particles with atoms. Interaction of #-particles with atoms. Braking radiation.
11. X-RAYS in MEDICINE
Production of X-rays. Absorbed dose and exposure. Diagnostic image formation.
Film as an X-ray detector; screens. Computed tomography. Radiation therapy.
12. THE DIAGNOSTIC APPLICATION OF ULTRASOUND IN MEDICINE
Sound and ultrasound. Source of ultrasound. The background of diagnostic application of ultrasound. Production of A image, B image.
13. OTHER PHYSICAL METHODS USED IN MEDICINE
Nuclear magnetic resonance tomography. LASER - therapeutic and surgery using.
Scheme of lessons:
1. Introductory lesson. Organization of the practical exercises, general safety rules. Basic definitions – measurement, error, absolute and relative error, arithmetical average, standard error of average.
2. Measurement of mass and density.
3. Specific heat measurement – calorimetry.
4. Surface tension measurement by droplett method.
5. Humidity measurement.
6. Sedimentation. Centrifugation.
7. Refractometry.
8. Polarimetry.
9. Spectrophotometry (a) – qualitative analysis.
Spectrophotometry (b) – quantitavie analysis.
10. Blood pressure measurement.
11. Electrocardiography.
12. Ultrasound I., II., III.
13. Credit test and evaluation of the reports.

Recommended literature:
Staničová J.: Biophysics for veterinary medicine, UVM, 2007
Electronic textbook accessible on intranet,
Tarján I. et al.: An introduction to biophysics with medical orientation, Akadémiai Kiadó, Budapest, 1987

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 120

A	B	C	D	E	FX
15.0	19.17	22.5	25.0	15.83	2.5

Course teachers:
Guarantor of the course: Doc. RNDr. Jana Staničová, PhD.
Lecturer: Doc. RNDr. Jana Staničová, PhD.
Practical teacher: Doc. RNDr. Jana Staničová, PhD.RNDr. Valéria Verebová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVDCHZv/GVM-BDGF 2/18	**Course name:** Breeding and diseases of fish

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 4

Recommended semester of the course study: 9.

Level of study: I.II.

Prerequisites: KaEaP/GVM-Epi 2/16 - Epizootology and KaEaP/GVM-Par 2/16 - Parasitology

Conditions for completion of the course:
100% practical classis attendance and pass the credit test

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:
Noga E.J.,2010: Fish diseases: diagnosis and treatment. Wiley-Blackvell, ISBN 0813806976, 236 pp. Roberts R. J.,1989: Fish pathology. Bailliere Tindall, London, 467 pp. Svobodová Z., Vykusová B.,1991: Diagnostics prevention and therapy of fish diseases and intoxications. VÚRH, Vodňany, 270 pp. Stoskopf M. K.,1993: Fish Medicine. W. B. Saunders Company, Philadelphia, 882 pp. Woo P. T. K.,1995: Fish diseases and disorders. Volume 1, Protozoan and Metazoan Infections. CAB International, Cambridge, 808 pp. Woo P. T. K.; Bruno, D. W.1999: Fish diseases and disorders Vol.3: Viral, bacterial and fungal infections. 874 pp.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 9

A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: MVDr. Peter Košúth, PhD.
Lecturer: MVDr. Peter Košúth, PhD.MVDr. Lenka Koščová, PhD.MVDr. Ľubomír Šmiga, PhD.
Practical teacher: MVDr. Ľubomír Šmiga, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVDCHZv/GVM-BDGF 1/18	**Course name:** Breeding and diseases of game

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 2

Recommended semester of the course study: 8.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
100% practical classis attendance

Learning outcomes of the course:

Brief outline of the course:
Students become familiar with diseases of game species mammals and birds, methods of restraint of wild animals, manipulation and transport of game. They obtain knowledge about intensive breeding of game ruminants and pheasants and about capture breeding of raptors.

Recommended literature:
Nova J. Silvy: The wildlife techniques manual
W. Trense: The big game of the world
M. Heidenreich: Birds of prey
L.Stoker: Practical wildlife care

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 15

A	B	C	D	E	FX
80.0	6.67	6.67	6.67	0.0	0.0

Course teachers:
Guarantor of the course: MVDr. Ľubomír Šmiga, PhD.
Lecturer: MVDr. Ľubomír Šmiga, PhD.Doc. MVDr. Peter Lazár, PhD.
Practical teacher: MVDr. Ľubomír Šmiga, PhD.Doc. MVDr. Peter Lazár, PhD.MVDr. Adriana Iglódyová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-V-EaVZZ/GVM-BrDisRTAn/16	**Course name:** Breeding and diseases of reptiles and terrarial animals

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 7.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-Phys 2/14 - Physiology

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:

1. Knotek Z. a kol.: Nemoci plazů, CAVLMZ, Brno 1999
2. BSAVA: Manual of Reptiles. BSAVA, Cheltenham, 1986
3. BSAVA: Manual of Rabbit Medicine and Surgery, BSAVA, Quedgeley, 2000
4. Fox JG: Biology and Diseases of the Ferret,Williams and Wilkins, Baltimore, 1998
5. Harcourt-Brown F: Textbook of Rabbit Medicine, Butterworth Heinemann, Oxford, 2002
6. Carpenter, J.W. Exotic Animal Formulary, W.B.Saunders, 3 ed., 2004
7. Keeble, E.: Manual of Rodents and Ferrets, Wiley-Blackwell, 2009
8. Harcourt-Brown, N.: Bsava Manual of Psittacine Birds, J.Wiley, 2005, 2nd ed.
9. Chitty,J.: Bsava Manual of Raptors and Passerine Birds ,BSAVA, 2008
10. Cambell, T.W.: Avian and Exotic Animal Hematology and Cytology, Wiley-Blackwell, 3 ed., 2007

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 37

A	B	C	D	E	FX
91.89	8.11	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: MVDr. Ladislav Molnár, PhD.
Lecturer: MVDr. Ladislav Molnár, PhD.MVDr. Miloš Halán, PhD.MVDr. Peter Major, PhD.
Practical teacher: MVDr. Miloš Halán, PhD.MVDr. Peter Major, PhD.

Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaChBChBF/GVM-Ch/16	**Course name:** Chemistry

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 3 **Per study period:** 26 / 39
Method of study: present

Number of credits: 6

Recommended semester of the course study: 1.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
Requirements for granting a credit:
1. To pass all laboratory exercises. (Attendance of laboratory exercises is MANDATORY. Students who miss a laboratory must provide written documentation to justify an absence).
2. To pass small naming test and small calculation test.
3. To submit all lab reports.
4. To pass a master test (according Evaluation of Study Results Chemistry 2019/2020).
5. To pass a master exercise.
Maximum of 30 % are assigned to the credit (10 % lab exercises, 10 % naming credit test and 10 % calculation credit test). Minimum of 15 % is for granting a credit (no Fx of any part). Exam consists of two questions, maximum of 35 % and minimum of 18 % is required for each one. The overall evaluation of a student consists of the sum of the percentage gained at the exam and the percentage gained for the credit. Grades are awarded according to a six-point grading scale (A: 91-100 %; B: 81 - 90%; C: 71-80 %; D: 61-70%; E: 51-60%; Fx:50 and less %)

Learning outcomes of the course:

Brief outline of the course:
Lectures: Chemical view of living organism. Introduction to the medical chemistry. The relationships between chemistry to some other scientific and health-related disciplines. Chemical nomenclature of inorganic compounds. Classification of matter. Essential chemical calculations. Structure of matter - Ionic bond, biologically important ions, covalent bond, coordinate covalent bond, chelates, biological importance of some chelates in organism. Van der Waals interactions. Relationship between the structure and biological function of the molecules. Analytical chemistry - introduction, volumetric analysis, calculations in the volumetric analysis, methods of the volumetric analysis. Selected parts of instrumental analysis. Potentiometric titrations. Conductometric titrations. Spectrophotometry - Lambert–Beer law, absorption spectra, calibration curve. Chromatographic methods, the quantitative and qualitative analysis in veterinary medicine. Chemical reactions in the biological systems. Thermodynamics. Reversibility and irreversibility of reactions, spontaneous reactions. Thermochemistry. Gibbs and Helmholtz energy, transformation of free energy in biological system. Kinetics, reaction rate and factors that affect rate, reaction order

and the molecularity, half-life of the reactions, significance for medicine. Reaction mechanisms, catalysis. Chemical equilibrium, equilibrium constant. Dispersive systems. Colligative properties of solutions. Protolytic reactions and their biological importance. Buffer theory. Biological buffering systems and disorders in acid–base equilibrium in organism. Classification of organic compounds and biochemically important reactions. Active site in the organic molecule - functional groups. Hydroxyderivatives - alcohols, phenols, enols, physical and chemical properties, biologically important reactions (oxidation, esterification), esters of phosphoric acid (AMP, ADP, ATP). Oxocompounds - (aldehydes, ketones), basic characteristics, physical and chemical properties, reactions important for organism, some representative compounds. Carbohydrates - classification, physical and chemical properties, stereoisomerism, important reactions (oxidation, reduction, forming of hemiacetals and acetals), deoxysaccharides, aminosaccharides, glycosides, glycosidic bond, oligosaccharides, important disaccharides. Polysaccharides, classification, homoglycans (starch, glycogen, cellulose, dextran, inulin) and heteroglycans (hyaluronic acid, chondroitin sulphate, proteoglycans), biological function. Carboxylic acids and their functional derivatives in the body - classification, nomenclature, physical and chemical properties, biochemically important reactions. Characteristics of acid derivatives (salts - solubility, anhydrides – source of energy in the body, esters, amides), polycarboxylic acids, fatty acids. Lipids - classification, structure, properties, reactivity, biologically important compounds and reactions, complex lipids, phospholipids, glycolipids. Biological membranes. Substitutive derivatives of carboxylic acids - classification, structure, properties, biochemically important reactions of hydroxyacids and oxoacids. Amino acids, peptides, proteins. Organic derivatives of carbonic acid in the body - urea and its derivatives, ureides, biologically important compounds. Sulphur organic compounds - thiols, sulphides, thioethers, sulfonic acids, sulfonium salts, biologically important compounds. Sulphonamides in veterinary medicine. Nitrogen organic compounds - amines - classification, reactions, biologically active amines, amides, amino alcohols and their derivatives. Heterocyclic compounds 5-membered and 6-membered heterocycles, classification, chemical properties biologically important compounds.
Practicals:
Chemistry laboratory guidelines. Introduction. The assessment of study. Laboratory safety rules
Laboratory glass. Basic chemical operations, the sample preparation and procedures. Chemical nomenclature. Basic calculations in chemistry. Density determination. Volumetric analysis -
Acid/base titrations. Manganometric titrations. Complexometric titrations. Conductometry, conductometric titrations. pH of the solutions, pH definition, pH calculations. Potentiometry, potentiometric titrations. Spectrophotometric analysis - qualitative and quantitative analysis. Ion exchange chromatography. Size exclusion chromatography. PC and TLC chromatography.

Recommended literature:
McMurry et al.: Chemistry, 2010
J. R. Holum: Fundamentals of General, Organic and Biological Chemistry, 1990
D. D. Ebbing: General Chemistry, 1987
A. Sobeková, T. Hrušková: Chemistry – Practical Exercises, procedures, 2013

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 91

A	B	C	D	E	FX
6.59	4.4	18.68	26.37	32.97	10.99

Course teachers:
Guarantor of the course: Doc. Ing. Anna Sobeková, PhD.
Lecturer: Doc. Ing. Anna Sobeková, PhD.
Practical teacher: Doc. Ing. Anna Sobeková, PhD.RNDr. Tatiana Hrušková, PhD.RNDr. Zuzana Bujdošová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaChBChBF/GVM-ClBiCh/19	**Course name:** Clinical biochemistry

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 7.

Level of study: I.II.

Prerequisites: KaChBChBF/GVM-BiCh 1/11 - Biochemistry and KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaPAaPF/GVM-PaPhy 1/11 - Pathological physiology and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and KaAHF/GVM-Phys 2/14 - Physiology

Conditions for completion of the course:
1. Participation at seminary lessons 100% . In case of absence (max. 3 times) at a seminary lesson it is necessary to present the topic in the form of seminar work next week or in the last week.
2. To obtain at least the evaluation of mark E from average of otained points in 8 written tests.

Learning outcomes of the course:

Brief outline of the course:
- Concepts of normality in clinical biochemistry. Populations and their distributions. Reference interval determination and use. Accuracy in analyte measurements. Precision in analyte measurements. Inference from samples.
- Carbohydrate metabolism and its diseases. Concentration of glucose in blood of animals and methods of its determination (direct methods, indirect methods – Alc hemoglobin, fructoseamine; tolerance tests: glucose tolerance tests, insulin tolerance test, glucagon stimulation test, epinephrine tolerance test, leucine-induced hypoglycemia).
- Hyperlipidemia in dogs, cats and horses. Ketogenesis and ketosis. Fasting ketosis. Diabetic ketosis. Ketosis associated with pregnancy and lactation (bovine ketosis, ovine pregnancy toxemia, syndromes in other species). Postexercise ketosis.
- Serum proteins and dysproteinemias. Methods of protein determination in serum of animals (total serum protein, fractionation and electrophoretic separation of the serum proteins). Normal serum proteins (prealbumin, albumin, globulins. Interpretation of serum protein profiles (physiological influences, inflammation).The dysproteinemias (normal and changed A:G profile).
- Clinical enzymology (natural history of clinically diagnostic serum enzyme, development of a clinical enzyme assay, validation of an assay, specimen requirements, assay of enzymes in the clinical laboratory, enzymuria, quality assurance). Diagnostics using enzyme- linked methods (immobilized enzymes, enzyme immunodiagnostics). Enzymes of clinical diagnostic importance.
- Porphyrins and the porphyrias. Methods for determination of porphyrins (fluorescence methods). The porfyrias (classification, erytropoietic porphyrias, hepatic porphyrias, aquired toxic porphyrias).

- Iron metabolism and its disorders. Iron compartments and its absorption and methods for evaluating of its metabolism (hematology, serum total iron binding capacity, serum ferritin, bone marrow iron, erythrocyte protoporphyrin, tissue nonheme iron, ferrokinetics). Disorders of iron metabolism (iron deficiency in pigs, calves, foals, dogs, cats; iron overload and toxicity; acute phase reaction; anemia of chronic disorders).
- Hypothalamus-pituitary system. Regulation of pituitary functions (adenohypophysis and neurohypophysis: ACTH/αMSH, β-endorphin/β-lipotropin), glycoprotein hormones (TSH, LH, FSH), somatomammotropic hormones (GH, prolactin). Neurohypophysis (vasopressin, oxyrocin). Assessment of pituitary function.
- Adrenocordical function. Adrenocortical diseases (hypoadrenocorticism, hyperadrenocorticism). Assessment of adrenocortical function.
- Thyroid function. Catabolism and excretion of thyroid hormones, its regulation. Thyroid function tests. Diseases of the thyroid (goiter, hypothyroidism, hyperthyroidism).
- Clinical reproductive endocrinology. Hormones of reproductive system (peptide and protein hormones, steroid hormones). Assay methods (immunoassay techniques). Clinical aspects of reproductive endocrinology in cattle, sheep pig, horse, dog, and cat. Material for analysis and storage effects.
- Calcium-regulating hormones and diseases of abnormal mineral (calcium, phosphorus, magnesium) metabolism. Calcium metabolism and calcium-regulating hormones (parathyroid hormone, parathyroid hormone-related protein, calcitonin, cholecalciferol – vitamin D).
- Phosphate metabolism (serum phosphate, absorption and excretion of phosphate; hypophosphatemia, hyperphosphatemia). Metabolic diseases of abnormal calcium/phosphorus metabolism (hyperparathyroidism, hypercalcemia, hypocalcemia, hypercalcitonism and hypocalcitoninism, rickets and osteomalacia; biochemical marekers of bone metabolism).
- Magnesium metabolism (distribution, absorption and excretion of magnesium), serum magnesium and its regulation. Disturbances of magnesium metabolism (hypomagnesemia in calves, hypomagnesemia in the adult cattle, miscellaneous conditions).
- Clinical manifestations of hepatic insufficiency (bile pigment, metabolism and excretion, icterus, hepatic encephalopathy, hepatic photosensitivity, ascites). Laboratory assessment of hepatic function (hepatic enzymes, serum bilirubin, serum bile acids, serum proteins, dye excretion).
- Physilogy of the pancreas (pancreatic fluid and electrolytes, pancreatic enzymes, regulation of pancreatic secretion). Pancreatic disease (acute pancreatitis, pancreatic insufficiency – etiology, pathopysiology, laboratory diagnostic aids).
- Disturbances of gastrointestinal function (vomition, gastric dilatation – volvulus, ischemia – reperfusion injury, acute diarrheas, intestinal malabsorption).
- Disturbances of rumen function (acute rumen indigestion, acute rumen tympany, urea poisoning).-
- Diagnostic laboratory methods for the evaluation of neuromuscular disorders. Selected neuromuscular disorders of domestic animals (ion channelopathies: myasthenia gravis, periodic paralysis, myotonia, malignant hyperthermia; muscular dystrophy; disorders of glyco(geno)lysis affecting skeletal muscle).
- Primary renal dysfunction (acute renal failure, chronic renal failure and their consequences: uremia and its clinical sign, derangements in water homeostasis, hematological abnormalities, plasma electrolyte concentrations, acid - base alterations, metabolic alterations associated with uremia). Urinalysis. Test of renal function (tests for azotemia, urine concentration tests, clearance methods).
- Evaluation of imbalances (water, sodium, potassium, chloride). Clinical features of fluid and electrolyte balance. Clinicopathological indicators of fluid and electrolyte imbalance (packed cell volume and total plasma protein, serum sodium, potassium and chloride, osmolality).
- Avian clinical biochemistry. Collection of blood samples. Starvation and postprandial effects = circadioan and circannual rhythms. Plasma proteins. Renal function (end products of

protein metabolism: hyperuricemia and gout, acute vs chronic renal failure, prerenal azotemia). Hepatobiliary disease (clinical enzymology, clearance of enzymes from plasma, indicators of liver and muscle damage, bile pigments and bile acids as indicators of hepatobiliary disease, hepatoencephalopathy). Muscle disease (enzyme profile in muscle disease, myopathies). Metabolic bone disease (relationship between total calcium and protein in avian plasma, hypocalcemia syndrome, alkaline phosphatase in bone disease). Iron storage disease. Diabetes mellitus and plasma glucose. Exocrine pancreatic disease. Toxicology (lead, zinc, organophosphate and carbamate).

Recommended literature:

Schmid M., von Forstner: Laboratory testing in veterinary medicine diagnosis and clinical monitoring, 1986.
Kaneko J.J. et al.: Clinical biochemistry of domestic animals, 1997.
Meyer D.J. and Harvey J.W.: Veterinary laboratory medicine. Interpretation and diagnosis, 2nd edition, W.B.Saunders Company, 1998.
Freeman, K.P, Klenner S.: Veterinary Clinical Pathology. A Case-Based Approach, CRC Press, Boca Raton, London, New York, 2015.

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 25

A	B	C	D	E	FX
92.0	8.0	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: Doc. MVDr. Dagmar Heinová, CSc.
Lecturer:
Practical teacher: Doc. MVDr. Dagmar Heinová, CSc.Doc. MVDr. Zuzana Kostecká, PhD.MVDr. Jana Šimková, PhD.

Date of last modification: 07.07.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaBIOaGEN/GVM-ClGen/17	**Course name:** Clinical genetics

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 10.

Level of study: I.II.

Prerequisites: KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and K-P/GVM-Prop 2/16 - Propedeutics

Conditions for completion of the course:
Students are obliged to absolve majority of lectures (80%) and 12 practical lessons. -to compensate missed practicals (Study Guide) providing knowledge of practiced topics -to pass 1st written test (60% of correct answers) and final test (55% of correct answers) -to be successfull in final oral exam

Learning outcomes of the course:
Application different genetics studies on the veterinary practicefield and on the veterinary researchfield . Students would be able to detect hereditary coded diseases to estimate the genetic risk for individual an/or population and apply the corresponding methods for its prevention.

Brief outline of the course:
Subject consists of the following parts:
• Application of pedigree and Bayesian procedure in hereditary diseases prevention.
• Cytogenetic studies on veterinary practice and research field.
• Basic information for dogs breeding
Patogenetics - most common hereditary diseases and developmental anomalies in animals
• Hereditary health control on the veterinary practice field
• Modern up-to date methods for prevention and the therapy of hereditary coded diseases
Subject is realized during 5th year of study . The course contents 26 hrs of lectures and 26 hrs of lessons and practices.

Recommended literature:
Literature: Compulsory (A) and proposed (B)
titles for study of subject A – list of compulsory titles
1. Dianovský,J., Šiviková,K., Tomko,M. : Veterinary Genetics, Košice,2003
2. Nicholas,F.W.: Veterinary Genetics, Oxford (1999 , 2001)
3. Nicholas, F.W.: Introduction to Veterinary Genetics. 3rded. Malden, MA: Blackwell Publishing,
2011. 159p.
4. Šiviková,K., Dianovský,J.,Holečková, B.: Introduction to Veterinay Genetics, Košice 2017, 178p.

B- proposed titles
1. Latshow, W. K.: Veterinary Developmental Anatomy, B.C. Decker INC, Toronto, Philadelphia ,1997 2. Robinson R: Genetics for Dog Breeders 2nd edition, Plant a Tree, Oxford, Aucland,Boston 2002
3. Axford,R.F.E.., Nicholas,F.W.,Owen,J.B.: Breeding for Disease Resistance in Farm Animals 2nd edition. CABI Publishing CAB International,1999
4. Darnell, Baltimore, Lodish : Molecular Cell Biology, New York Academy Press ,2002, 2005
5. Thompson J.S.,Thompson M.W.:Genetics in Medicine, Saunders Co,Philadelphia, London, Toronto 1999
6. Schmutz, S.M., T. G. Berryere 2007. A review of the genes affecting coat color and pattern in domestic dogs. Animal Genetics 38: 539-549 2007
7. Gough A., Thomas A.: Breed predisposition to disease in dogs and cats. Wiley/Blackwel 2004,248pp.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: Doc. RNDr. Beáta Holečková, PhD.
Lecturer: Doc. RNDr. Beáta Holečková, PhD.
Practical teacher: Doc. RNDr. Beáta Holečková, PhD.MVDr. Viera Schwarzbacherová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaMBaI/GVM-ClMicImm/11	**Course name:** Clinical microbiology and immunology
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 2 **Per study period:** 26 / 26 **Method of study:** present	
Number of credits: 3	
Recommended semester of the course study: 8.	
Level of study: I.II.	
Prerequisites: KaMBaI/GVM-Mic 2/15 - Microbiology and KaMBaI/GVM-Im/16 - Immunology and KaBIOaGEN/GVM-Biol/16 - Biology and KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-HisEmb 2/13 - Histology and embryology and KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaBIOaGEN/GVM-Gen/16 - Genetics and KaAHF/GVM-Phys 2/14 - Physiology and KaVDCHZv/GVM-NutFeed 2/15 - Nutrition and feeding of animals and K-P/GVM-Prop 1/16 - Propedeutics and KaPAaPF/GVM-PaA 1/11 - Pathological anatomy and KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics	
Conditions for completion of the course: Credit (laboratory work, protocol) and exam (Power point presentation of selected topic from Microbiology and Immunology).	
Learning outcomes of the course:	
Brief outline of the course: The subject Clinical microbiology and immunology focused to diagnostics of clinical materials from animal patients. It consists of cultivation, microscopy, testing of metabolic activity of bacteria and also antibiotic susceptibility test against pathogens isolated from samples. Consequently the immunological examination is done.	
Recommended literature: Pilipčinec E. et al.: Practical lesssons from Microbiology. UVMP in Košice, 2016. Markey B. et al.: Clinical Veterinary Microbiology, Mosby Elsevier, 2013. Quinn P. J. et al.: Veterinary Microbiology and Microbial Disease, Wiley-Blackwell, 2013. Tizard I.R.: Veterinary immunology. 9th edition. Elsevier, 2013. Day M.J., Schultz R.D.: Veterinary immunology. Principles and practice, 2012 Lectures – actual topics.	
Language of instruction: English	
Notes:	

Evaluation of the course
Total number of evaluated students: 13

A	B	C	D	E	FX
92.31	7.69	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: Prof. MVDr. Emil Pilipčinec, PhD., Prof. MVDr. Ľudmila Tkáčiková, PhD.
Lecturer: Prof. MVDr. Emil Pilipčinec, PhD.Prof. MVDr. Ľudmila Tkáčiková, PhD.
Practical teacher: MVDr. Jana Koščová, PhD.Doc. MVDr. Dagmar Mudroňová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-MZ/GVM-COAn/17

Course name: Clinical oncology of animals

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 9.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
1.participation in all exercises
2. Exam

Learning outcomes of the course:
student will have information aboutthe etiology and pathogenesis of tumors in small and big animals, master basic and he will by able of advanced diagnostics - clinical examination, to collect sample for cytology and histology and some special tests, will have information about principles of surgical oncology and chemotherapy.

Brief outline of the course:
cancer etiology, clinical manifestation of tumor, sampling for cytological examination and evaluation of cytology, sampling for histological examination and evaluation of coatings, surgical treatment of tumors, chemotherapy

Recommended literature:
Recommended reading:
1. Small Animal Clinical Oncology Withrow, S. J., and Vail, M. 4. edition, 2007
2. Managing the Canine Cancer Patient – A practical guide to compasionate care
Ogilvie, G. K., Moore, A. S. 1. edition, 2006
3. 1. Klinická onkológia psov a mačiek. Ledecký a kol. 2015

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 12

A	B	C	D	E	FX
33.33	41.67	25.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: MVDr. Alexandra Valenčáková, PhD.

Lecturer: MVDr. Alexandra Valenčáková, PhD.Prof. MVDr. Valent Ledecký, CSc. Practical teacher:
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaFaT/GVM-ClPhrm/17	**Course name:** Clinical pharmacology
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 0 / 2 **Per study period:** 0 / 26 **Method of study:** present	
Number of credits: 3	
Recommended semester of the course study: 10.	
Level of study: I.II.	
Prerequisites: KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics and K-MZ/GVM-GeSAn 2/16 - General surgery and anesthesiology	
Conditions for completion of the course: The condition for passing the subject is to obtain credit and the successful completion of the test (in written form). For the credit awarding a 100% active participation in seminars, preparation and presentation of the essay (evaluated for minimum of 11% from 20%) is required. The evaluation is included to the final evaluation in exam.	
Learning outcomes of the course: By completing the course student gets comprehensive approach to pharmacotherapy of animal diseases.	
Brief outline of the course: - therapy and management of selected infectious and non-infectious animal diseases (ruminants, pigs, horses, small animals, birds and exotic animals) with regard to individual variability and drug interactions - basic principles of pharmacotherapy in surgical practice	
Recommended literature: 1. Boothe D.M.: Small animal Clinival Pharmacology and Therapeutics. 2nd Edition, Elsevier Saunders, 2012:1334 pp. 2. Adams H.R. (ed.): Veterinary Pharmacology and Therapeutics, 8th Edition, Iowa State Press - A Blackwell Publishing Company, 2001, 1174 pp. 3. Wanamaker B. P., Massey K. L.: Applied Pharmacology for the Veterinary Technician, 3rd Edition, Saunders, 2004, 436 pp. 4. The Merck Veterinary Manual: http://www.merckvetmanual.com 5. Plumb D.C.: Plumb's Veterinary Drug Handbook, 6th Edition, Blackwell Publishing, 2008, 1463 pp.	
Language of instruction: english	
Notes:	

Evaluation of the course
Total number of evaluated students: 8

A	B	C	D	E	FX
25.0	12.5	25.0	25.0	12.5	0.0

Course teachers:
Guarantor of the course: Doc. MVDr. Eva Čonková, PhD.
Lecturer:
Practical teacher: Doc. MVDr. Eva Čonková, PhD.MVDr. Peter Váczi, PhD.MVDr. Lucia Sabová, PhD.MVDr. Dana Marcinčáková, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-V-EaVZZ/CP-CBExFA 1/17	**Course name:** Clinical practice - Clinic of birds, exotic and free living animals

Form, course-load and method of study:
Form of study: Practical
Recommended course-load (in hours):
Per week: Per study period: 30s
Method of study: present

Number of credits: 0

Recommended semester of the course study: 9.

Level of study: I.II.

Prerequisites: (KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-Phys 2/14 - Physiology and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics) or (KaAHF/BSc-Anat I./11 - Anatomy I. and KaAHF/BSc-Anat II. 2/16 - Anatomy II. and KaAHF/BSc-Phys 2/16 - Physiology) or KaAHF/BSc-JSP-An/16 - Anatomy

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 259

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Ladislav Molnár, PhD.
Lecturer:
Practical teacher: MVDr. Ladislav Molnár, PhD.MVDr. Vladimír VrabecMVDr. Peter Major, PhD.Doc. MVDr. Juraj Toporčák, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-V-EaVZZ/CP-CBExFA 2/17	**Course name:** Clinical practice - Clinic of birds, exotic and free living animals

Form, course-load and method of study:
Form of study: Practical
Recommended course-load (in hours):
Per week: Per study period: 30s
Method of study: present

Number of credits: 0

Recommended semester of the course study: 10.

Level of study: I.II.

Prerequisites: (KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-Phys 2/14 - Physiology and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics) or (KaAHF/BSc-Anat I./11 - Anatomy I. and KaAHF/BSc-Anat II. 2/16 - Anatomy II. and KaAHF/BSc-Phys 2/16 - Physiology and KaPAaPF/BSc-PaPhy 2/16 - Pathological physiology and KaPAaPF/BSc-PaA 1/11 - Pathological anatomy and KaFaT/BSc-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics) or (KaAHF/BSc-JSP-An/16 - Anatomy and KaPAaPF/BSc-JSP-PaPhy 2/13 - Pathological physiology and KaPAaPF/BSc-JSP-PaA 1/15 - Pathological anatomy and KaFaT/BSc-JSP-PhrPT 2/16 - Pharmacology, pharmacy and therapeutics)

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 199

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Ladislav Molnár, PhD.
Lecturer:
Practical teacher: MVDr. Ladislav Molnár, PhD.MVDr. Vladimír VrabecMVDr. Peter Major, PhD.Doc. MVDr. Juraj Toporčák, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-K/ CP-CHr 1/17	**Course name:** Clinical practice - Clinic of horses

Form, course-load and method of study:
Form of study: Practical
Recommended course-load (in hours):
Per week: Per study period: 10s
Method of study: present

Number of credits: 0

Recommended semester of the course study: 10.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:
Brief outline of the subject:
Clinical practice is carried out under the supervision of a veterinary doctor on duty in the Clinic of Horses, Institute of Epizootology and Preventive Veterinary Medicine, Institute of Parasitology in the Clinic of Horses, Riding Club UVMP Košice and stud farms.

Recommended literature:

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 274

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Prof. MVDr. Igor Valocký, PhD.
Lecturer:
Practical teacher: Prof. MVDr. Igor Valocký, PhD.Prof. MVDr. František Novotný, PhD.Doc. MVDr. Ján Bílek, PhD.MVDr. Vladimír Hura, PhD.MVDr. Michaela Karamanová, PhD.MVDr. Petra Horňáková, PhD.MVDr. Zdeněk Žert, CSc.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-K/ CP-CHr 2/18	**Course name:** Clinical practice - Clinic of horses

Form, course-load and method of study:
Form of study: Practical
Recommended course-load (in hours):
Per week: Per study period: 20s
Method of study: present

Number of credits: 0

Recommended semester of the course study: 11.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:
Brief outline of the subject:
Clinical practice is carried out under the supervision of a veterinary doctor on duty in the Clinic of Horses, Institute of Epizootology and Preventive Veterinary Medicine, Institute of Parasitology in the Clinic of Horses, Riding Club UVMP Košice and stud farms.

Recommended literature:

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 256

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Prof. MVDr. Igor Valocký, PhD.
Lecturer:
Practical teacher: Prof. MVDr. Igor Valocký, PhD.Prof. MVDr. František Novotný, PhD.Doc. MVDr. Ján Bílek, PhD.MVDr. Monika Drážovská, PhD.MVDr. Vladimír Hura, PhD.MVDr. Michaela Karamanová, PhD.Doc. MVDr. Alica Kočišová, PhD.MVDr. Petra Horňáková, PhD.MVDr. Milan Čížek, PhD.MVDr. Zdeněk Žert, CSc.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-K/ CP-CHr 3/18	**Course name:** Clinical practice - Clinic of horses

Form, course-load and method of study:
Form of study: Practical
Recommended course-load (in hours):
Per week: Per study period: 60s
Method of study: present

Number of credits: 4

Recommended semester of the course study: 12.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:
Brief outline of the subject:
Clinical practice is carried out under the supervision of a veterinary doctor on duty in the Clinic of Horses, Institute of Epizootology and Preventive Veterinary Medicine, Institute of Parasitology in the Clinic of Horses, Riding Club UVMP Košice and stud farms.

Recommended literature:

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 246

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Prof. MVDr. Igor Valocký, PhD.
Lecturer:
Practical teacher: Prof. MVDr. Igor Valocký, PhD.Prof. MVDr. František Novotný, PhD.Doc. MVDr. Ján Bílek, PhD.MVDr. Monika Drážovská, PhD.MVDr. Vladimír Hura, PhD.MVDr. Michaela Karamanová, PhD.Doc. MVDr. Alica Kočišová, PhD.MVDr. Petra Horňáková, PhD.MVDr. Milan Čížek, PhD.MVDr. Zdeněk Žert, CSc.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-O/ CP-CPg 1/18	**Course name:** Clinical practice - Clinic of pigs
Form, course-load and method of study: **Form of study:** Practical **Recommended course-load (in hours):** **Per week: Per study period:** 30s **Method of study:** present	
Number of credits: 0	
Recommended semester of the course study: 11.	
Level of study: I.II.	
Prerequisites: (KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and K-P/GVM-Prop 2/16 - Propedeutics and K-K/GVM-ObReRD/16 - Obstetrics, reproduction and reproduction disorders and KaEaP/GVM-Epi 2/16 - Epizootology and K-MZ/GVM-GeSAn 2/16 - General surgery and anesthesiology and KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaEaP/GVM-Par 2/16 - Parasitology and K-P/GVM-AnArIn/11 - Andrology and artificial insemination) or ((KaFaT/BSc-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics or KaFaT/BSc-JSP-PhrPT 2/16 - Pharmacology, pharmacy and therapeutics) and (KaFaT/BSc-Tox/16 - Toxicology or KaFaT/BSc-JSP-Tox/16 - Toxicology) and (K-P/BSc-Prop 2/16 - Propedeutics or K-P/BSc-JSP-Prop 2/16 - Propedeutics) and (K-MZ/BSc-GeSAn 2/16 - General surgery and anaestesiology or K-MZ/BSc-JSP-GeSAn 2/16 - General surgery and anaestesiology) and (KaEaP/BSc-Par 2/16 - Parasitology or KaEaP/BSc-JSP-Par 2/16 - Parasitology) and (KaPAaPF/BSc-PaPhy 2/16 - Pathological physiology or KaPAaPF/BSc-JSP-PaPhy 2/13 - Pathological physiology) and KaEaP/BSc-Epi 2/17 - Epizootology and KaPAaPF/BSc-PaA 2/17 - Pathological anatomy and K-P/BSc-AnArIn/17 - Andrology and artificial insemination and K-K/BSc-ObReRD/17 - Obstetrics, reproduction and reproduction disorders)	
Conditions for completion of the course: Completion of required hours (30+30) of clinical practice at the Clinical Department for Swine, participation in therapeutic and preventive interventions taken in the clinic, filling the protocols	
Learning outcomes of the course: Skilled diagnostic, therapeutic, and preventive methods in swine.	
Brief outline of the course: The students are trained in special diagnosing and surgical procedures in various categories of pigs. Following initial clinical examination they watch the case course, participate in treatment and special diagnostic procedures. The students keep also clinical records.	
Recommended literature:	
Language of instruction: English	
Notes:	

Evaluation of the course
Total number of evaluated students: 264

nezap	zap.
1.14	98.86

Course teachers:
Guarantor of the course: MVDr. Jaroslav Novotný, PhD.
Lecturer:
Practical teacher: MVDr. Jaroslav Novotný, PhD.Prof. MVDr. Peter Reichel, CSc.Doc. MVDr. Vladimír Macák, PhD.MVDr. Róbert Link, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-O/CP-CPg 2/18	**Course name:** Clinical practice - Clinic of pigs

Form, course-load and method of study:
Form of study: Practical
Recommended course-load (in hours):
Per week: Per study period: 30s
Method of study: present

Number of credits: 4

Recommended semester of the course study: 12.

Level of study: I.II.

Prerequisites: (KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and K-P/GVM-Prop 2/16 - Propedeutics and K-K/GVM-ObReRD/16 - Obstetrics, reproduction and reproduction disorders and KaEaP/GVM-Epi 2/16 - Epizootology and K-MZ/GVM-GeSAn 2/16 - General surgery and anesthesiology and KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaEaP/GVM-Par 2/16 - Parasitology and K-P/GVM-AnArIn/11 - Andrology and artificial insemination and KaEaP/GVM-SSE-CDA/17 - Contagious diseases of animals) or ((KaFaT/BSc-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics or KaFaT/BSc-JSP-PhrPT 2/16 - Pharmacology, pharmacy and therapeutics) and (KaFaT/BSc-Tox/16 - Toxicology or KaFaT/BSc-JSP-Tox/16 - Toxicology) and (K-P/BSc-Prop 2/16 - Propedeutics or K-P/BSc-JSP-Prop 2/16 - Propedeutics) and (K-MZ/BSc-GeSAn 2/16 - General surgery and anaestesiology or K-MZ/BSc-JSP-GeSAn 2/16 - General surgery and anaestesiology) and (KaEaP/BSc-Par 2/16 - Parasitology or KaEaP/BSc-JSP-Par 2/16 - Parasitology) and (KaPAaPF/BSc-PaPhy 2/16 - Pathological physiology or KaPAaPF/BSc-JSP-PaPhy 2/13 - Pathological physiology) and KaEaP/BSc-Epi 2/17 - Epizootology and K-P/BSc-AnArIn/17 - Andrology and artificial insemination and KaPAaPF/BSc-PaA 2/17 - Pathological anatomy and KaEaP/BSc-SSE-CDA/17 - Contagious diseases of animals and K-K/BSc-ObReRD/17 - Obstetrics, reproduction and reproduction disorders)

Conditions for completion of the course:
Completion of required hours (30+30) of clinical practice at the Clinical Department for Swine, participation in therapeutic and preventive interventions taken in the clinic, filling the protocols

Learning outcomes of the course:
Skilled diagnostic, therapeutic, and preventive methods in swine.

Brief outline of the course:
The students are trained in special diagnosing and surgical procedures in various categories of pigs. Following initial clinical examination they watch the case course, participate in treatment and special diagnostic procedures. The students keep also clinical records.

Recommended literature:

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 246

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Jaroslav Novotný, PhD.
Lecturer:
Practical teacher: MVDr. Jaroslav Novotný, PhD.Prof. MVDr. Peter Reichel, CSc.Doc. MVDr. Vladimír Macák, PhD.MVDr. Róbert Link, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-P/ CP-CRu 1/17	**Course name:** Clinical practice - Clinic of ruminants

Form, course-load and method of study:
Form of study: Practical
Recommended course-load (in hours):
Per week: Per study period: 30s
Method of study: present

Number of credits: 0

Recommended semester of the course study: 10.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
participation in practical training

Learning outcomes of the course:
Students are able to make diagnosis, treat, and organise prevention of ruminatnt diseases.

Brief outline of the course:
Diseases of Ruminats (internal, reproduction, orthopedic, infectious, ...)

Recommended literature:
Radistitis et al.: Veterinary Medicine, 10th Ed., Elsevier Saunders, London, 2006.
Divers JD, Peek SF: Rebhun's Diseses of dairy cattle, St. Louis: Elsevier Inc, 2008.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 275

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM
Lecturer:
Practical teacher: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-P/ CP-CRu 2/18	**Course name:** Clinical practice - Clinic of ruminants

Form, course-load and method of study:
Form of study: Practical
Recommended course-load (in hours):
Per week: Per study period: 30s
Method of study: present

Number of credits: 0

Recommended semester of the course study: 11.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
participation in practical training

Learning outcomes of the course:
Students are able to make diagnosis, treat, and organise prevention of ruminatnt diseases.

Brief outline of the course:
Diseases of Ruminats (internal, reproduction, orthopedic, infectious, ...)

Recommended literature:
Radistitis et al.: Veterinary Medicine, 10th Ed., Elsevier Saunders, London, 2006.
Divers JD, Peek SF: Rebhun's Diseses of dairy cattle, St. Louis: Elsevier Inc, 2008.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 266

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM
Lecturer:
Practical teacher: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-P/ CP-CRu 3/18	**Course name:** Clinical practice - Clinic of ruminants

Form, course-load and method of study:
Form of study: Practical
Recommended course-load (in hours):
Per week: Per study period: 30s
Method of study: present

Number of credits: 4

Recommended semester of the course study: 12.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
participation in practical training

Learning outcomes of the course:
Students are able to make diagnosis, treat, and organise prevention of ruminatnt diseases.

Brief outline of the course:
Diseases of Ruminats (internal, reproduction, orthopedic, infectious, ...)

Recommended literature:
Radistitis et al.: Veterinary Medicine, 10th Ed., Elsevier Saunders, London, 2006.
Divers JD, Peek SF: Rebhun's Diseses of dairy cattle, St. Louis: Elsevier Inc, 2008.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 246

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM
Lecturer:
Practical teacher: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-MZ/CP-SAC 1/17	**Course name:** Clinical practice - Small animal clinic

Form, course-load and method of study:
Form of study: Practical
Recommended course-load (in hours):
Per week: Per study period: 40s
Method of study: present

Number of credits: 0

Recommended semester of the course study: 10.

Level of study: I.II.

Prerequisites: K-P/GVM-Prop 2/16 - Propedeutics or K-P/BSc-Prop 2/16 - Propedeutics or K-P/BSc-JSP-Prop 2/16 - Propedeutics

Conditions for completion of the course:
attendance of 40 hours knowledge general exam of patient basic practical skill

Learning outcomes of the course:
Students should have basic knowledge of patient management: - receipt, registration, identification, health history, fixation, basic clinical examination by type, diagnostic plan, differential diagnostics, design therapies - therapeutic mastery of simple operations (after application of the product, application sc injections, im, iv, blood and other samples, an IV cannula, rinsing the anal sacs application enema). After rotation at specialized workplaces should know - administration of infusion therapy, making the ECG, measure blood presure, to collect of material for cytological examination, catheterization, evaluating hematological and biochemical parameters, protocol processing patient with his surrender

Brief outline of the course:
1. Clinical practice - part of Small Animal Internal Medicine: The first contact - patient management: Specialized departments

Recommended literature:

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 266

nezap	zap.
0.75	99.25

Course teachers:
Guarantor of the course: MVDr. Tatiana Weissová, PhD.
Lecturer:

Practical teacher: MVDr. Tatiana Weissová, PhD.Doc. MVDr. Mária Fialkovičová, PhD.MVDr. Darina Baranová, PhD.MVDr. Jana Gálová, PhD.MVDr. Martina KarasováMVDr. Aladár Maďari, PhD.MVDr. Lucia NovotnáMVDr. Branislav LukáčMVDr. Jana Farbáková, PhD.
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-MZ/CP-SAC 2/12	**Course name:** Clinical practice - Small animal clinic

Form, course-load and method of study:
Form of study: Practical
Recommended course-load (in hours):
Per week: Per study period: 40s
Method of study: present

Number of credits: 0

Recommended semester of the course study: 11.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
for each term had half the prescribed operating procedures in Clinical practice and attendance of 40 hours

Learning outcomes of the course:
part surgery:
studen receive practice in communication with client, technique of clinical examination in focus on surgical patient and conected skill (anaesthesia, surgery, and related possible complications)
part reproduction:
prctical skill about elective and therapeutical surgical procedures in focus on reproduction

Brief outline of the course:
part surgery - practice in communication with client, technique of clinical examination in focus on surgical patient and conected skill (anaesthesia, surgery, and related possible complications)
part reproduction - prctical skill about elective and therapeutical surgical procedures in focus on reproduction

Recommended literature:
. Tobias and Johnson“ Textbook of Small Animal Surgery

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 259

nezap	zap.
0.39	99.61

Course teachers:
Guarantor of the course: Prof. MVDr. Valent Ledecký, CSc.
Lecturer:
Practical teacher: Prof. MVDr. Valent Ledecký, CSc.Prof. MVDr. Alexandra Trbolová, PhD.

Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-MZ/CP-SAC 3/18	**Course name:** Clinical practice - Small animal clinic

Form, course-load and method of study:
Form of study: Practical
Recommended course-load (in hours):
Per week: Per study period: 40s
Method of study: present

Number of credits: 4

Recommended semester of the course study: 12.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
for each term had half the prescribed operating procedures in Clinical practice and attendance of 40 hours

Learning outcomes of the course:
part surgery:
continue with client communication and clinical exam of patient, care about patient after surgery, lameness diagnostic and small surgical procedures
part infectious diseases:
prevention and therapy in suspected infectoius disease, work in field and laboratory and administration in central register of animals

Brief outline of the course:
part surgery:
diagnostic procedure and therapeutic plan soft and skeletal diseaeses of surgical patient
part infectious diseases:
preventive and therapeutic procedures in suspected infectoius disease, work in field and laboratory and administration in central register of animals

Recommended literature:
Tobias and Johnson“ Textbook of Small Animal Surgery

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 242

nezap	zap.
0.41	99.59

Course teachers:
Guarantor of the course: Prof. MVDr. Valent Ledecký, CSc.

Lecturer: Practical teacher: Prof. MVDr. Valent Ledecký, CSc.Prof. MVDr. Alexandra Trbolová, PhD.
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-MZ/ClSyndDC/18	**Course name:** Clinical syndromes in dog and cat
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 0 / 2 **Per study period:** 0 / 26 **Method of study:** present	
Number of credits: 3	
Recommended semester of the course study: 11.	
Level of study: I.II.	
Prerequisites: K-MZ/GVM-SSE-IDSA 2/17 - Internal diseases of small animals or K-MZ/BSc-SSE-IDSA 2/17 - Internal diseases of small animals	
Conditions for completion of the course:	
Learning outcomes of the course:	
Brief outline of the course:	
Recommended literature:	
Language of instruction:	
Notes:	
Evaluation of the course Total number of evaluated students: 36	
nezap	zap.
0.0	100.0
Course teachers: Guarantor of the course: MVDr. Tatiana Weissová, PhD. Lecturer: Practical teacher: MVDr. Tatiana Weissová, PhD.MVDr. Aladár Maďari, PhD.MVDr. Martina KarasováDoc. MVDr. Mária Fialkovičová, PhD.MVDr. Jana Gálová, PhD.	
Date of last modification: 14.04.2019	
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.	

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaEaP/GVM-SSE-CDA/17	**Course name:** Contagious diseases of animals

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 9.

Level of study: I.II.

Prerequisites: KaEaP/GVM-Epi 2/16 - Epizootology and KaEaP/GVM-Par 2/16 - Parasitology

Conditions for completion of the course:
100% attendance in practical lessons
75% attendance in lectures

Learning outcomes of the course:
Knowledge about important cantagious diseases occurence in animals with respect to public health. Prevention and control measures in contagious diseases. Assessment of the current epizootiological situation in the world. Strategies to reduce disease frequency, emergency plans, eradication plans. Outbreak zones measures

Brief outline of the course:
Important contagious diseases, current epizootiological situation, preventive and control measures, outbreak investigation, control and sanitation. Eradication plans, surveillance plans

Recommended literature:
Sharama R.D. Textbook of Preventive Veterinary Medicine and Epidemiology, 2010,Indian Council of Agricultural Research, ISBN-13: 978-8171640621
R.D. Smith: Veterinary Clinical epidemiology, Third Edition, Taylor and Francis Group, LLC, 2006, 249pp Sergeant and Perkins: Epidemiology for field veterinarians, an introduction, CABI, 2015, ISBN:9781845936839, 311pp
Terrestrial Manual7th Edition, 2012 Volumes 1 and 229.7 x 21 cmxxxv + 1404 pagesISBN 978-92-9044-878-5

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 95

nezap	zap.
0.0	100.0

Course teachers: Guarantor of the course: Dr. h. c. Prof. MVDr. Jana Mojžišová, PhD. Lecturer: Dr. h. c. Prof. MVDr. Jana Mojžišová, PhD.MVDr. Milan Čížek, PhD.MVDr. Boris Vojtek, PhD.MVDr. René Mandelík, PhD.MVDr. Gabriela Štrkolcová, PhD.Doc. MVDr. Alica Kočišová, PhD. Practical teacher:
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaŽPVLE/SE CDAPEVL/17	**Course name:** Contagious diseases of animals, protection of the environment and veterinary legislation

Form, course-load and method of study:
Form of study:
Recommended course-load (in hours):
Per week: Per study period:
Method of study: present

Number of credits: 10

Recommended semester of the course study: 9., 10..

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 173

A	B	C	D	DZ-N	DZ-P	E	FX
36.42	24.28	12.72	15.03	0.0	0.0	7.51	4.05

Course teachers:
Guarantor of the course:
Lecturer:
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-K/ GVM-CrMBRep/17	**Course name:** Crisis management and biotechnics in reproduction
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 1 / 2 **Per study period:** 13 / 26 **Method of study:** present	
Number of credits: 3	
Recommended semester of the course study: 9.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course: 1 hours lecture 2 hours practice 13/26e winter V. years	
Learning outcomes of the course: Student after acquisition of methods used in diagnostic and therapy of reproductive disorders, after obtaining acquirements about utilization of new strategical procedures and after passing practical lessons and lectures will be able in modern way affect reproductive process in farm animals in system of emergency management. Will be qualified to determine optimal time of female fertilization, diagnose pregnancy in all stages, evaluate and select the most optimal biotechnical model to resolve the reproductive problems on farm.	
Brief outline of the course:	
Recommended literature: LITERATURE: 1. ARTHUR, G.H. - NOAKES, D.E. - PEARSON, H.: Veterinary Reproduction and Obstetrics. ELBS / Bailliere Tindall, 1982. 2. BURKE, T.J.: Small Animal Reproduction and Infertility. Lea & Febiger, Philadelphia, 1986. 3. CURTIS, J.L.: Cattle Embryo Transfer Procedure. July, 1990. 4. HAFEZ, E.S.E.: Reproduction in Farm Animals. Lea & Febiger, Philadelphia, 1987. 5. HUGHES, P. - VARLEY, M.: Reproduction in the Pig. Butterworths. 6. HUNTER, R.H.F.: Physiology and Technology of Reproduction in Female Domestic Animals. Academic Press, London, 1980. 7. McDONALD, L.E.: Veterinary Endocrinology and Reproduction. Lea & Febiger, Philadelphia, 1980. 8. KNOBIL, E. - NEILL, J.D.: The Physiology of Reproduction. Raven Press, 1988. 9. LAING, J.A.: Fertility and Infertility in Domestic Animals. Bailliere Tindall, London, 1979. 10.MORROW, D.A.: Current Therapy in Theriogenology. W.B.Saunders Company, 1986. 11.PETERS, A.R. - BALL, P.J.H.: Reproduction in Cattle. Butterworth, 1987.	

12.ROBERTS, S.J.: Veterinary Obstetrics and Genital Diseases (Theriogenology). Roberts, Woodstock, 1986.
13.ROWLANDS, I.W. - ALLEN, W.R. - ROSSDALE, P.D.: Equine Reproduction. Journal of Reproduction & Fertility, 1982.
14.SALISBURY, G.W. - VanDEMARK, N.L. - LODGE, J.R.: Physiology of Reproduction and Artificial Insemination of Cattle. W.H.Freeman and company, San Francisco, 1978.
15.SQUIRES, E.L. - COOK, V.M. - VOSS, J.L.: Collection and Transfer of Equine. Animal Reproduction Laboratory Bulletin, No 1, 1985.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 6

A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: Prof. MVDr. František Novotný, PhD.
Lecturer: Prof. MVDr. František Novotný, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVDCHZv/GVM-Cyn/16	**Course name:** Cynology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 3 **Per study period:** 0 / 39
Method of study: present

Number of credits: 3

Recommended semester of the course study: 2.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
100% practical classis attendance

Learning outcomes of the course:

Brief outline of the course:
Students become familiar with FCI registered dog breeds, dogs shows and training and utilization of dogs.

Recommended literature:
E.J.J. Verhoef-Verhallen (2001): The complete encyklopedia of dogs
Eukanuba (2009): Dogs A-G
Eukanuba (2009): Dogs H-Z
B.Fogle (2006): The complete dog care manual

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 38

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Ľubomír Šmiga, PhD.
Lecturer:
Practical teacher: MVDr. Ľubomír Šmiga, PhD.Doc. MVDr. Peter Lazár, PhD.MVDr. Adriana Iglódyová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: RRZaDS/SE DfDT/18	**Course name:** Defending of diploma thesis

Form, course-load and method of study:
Form of study:
Recommended course-load (in hours):
Per week: Per study period:
Method of study: present

Number of credits: 5

Recommended semester of the course study: 9., 10.., 11., 12..

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 263

A	B	C	D	E	FX	N	Np	Op	V
76.43	16.73	5.32	1.14	0.38	0.0	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course:
Lecturer:
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaPAaPF/GVM-DiagPat/17	**Course name:** Diagnostic pathology
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 0 / 2 **Per study period:** 0 / 26 **Method of study:** present	
Number of credits: 3	
Recommended semester of the course study: 10.	
Level of study: I.II.	
Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-HisEmb 2/13 - Histology and embryology and KaAHF/GVM-Phys 2/14 - Physiology and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and KaPAaPF/GVM-PaA 2/16 - Pathological anatomy	
Conditions for completion of the course: Active participation in the exercises, elaboration and presentation of the classified seminar work. Obtaining a minimum E grade for seminar work is a prerequisite for the credit.	
Learning outcomes of the course: Students will acquire knowledge of pathogenesis, pathomorphological and pathohistological changes in selected diseases of livestock and domestic animals with emphasis on differential diagnosis of individual diseases.	
Brief outline of the course: Pathological morphology and diagnosis of bovine diseases, equine diseases, pig diseases, poultry diseases, dog and cat diseases, diseases of small ruminants, rabbits and fur animals.	
Recommended literature: Levkut, M., Ševčíková, Z., Revajová, V. : Diseases of Domestic Animals, UVMP Košice, 2016, pp. 104, ISBN 80-88867-08-8 Levkut, M., Ševčíková, Z., Revajová, V., Herich, R.: General Veterinary Pathology, 2nd edition, UVMP, Košice, 2016, pp.107, ISBN 978-80-8077-520-9 Levkut, M., Revajová, V., Ševčíková, Z., Herich, R.: Special pathological anatomy. 2nd edition, UVMP, Košice, 2015, pp. 226, ISBN 978-80-8077-472-1 Thomson, R.G.: Special Veterinary Pathology. 3rd edition. Mosby Inc., USA, 2001, pp. 755, ISBN 978-0-323-00560-9 Zachary, J.F., McGavin, M.D.: Pathologic Basis of Veterinary Disease. 5th ed., Elsevier 2012, pp. 1322, ISBN 978-0-323-07533-6	
Language of instruction: english	
Notes:	

Evaluation of the course
Total number of evaluated students: 23

A	B	C	D	E	FX
30.43	26.09	17.39	13.04	4.35	8.7

Course teachers:
Guarantor of the course: Doc. MVDr. Róbert Herich, PhD.
Lecturer:
Practical teacher: Doc. MVDr. Róbert Herich, PhD.Prof. MVDr. Zuzana Ševčíková, PhD.Prof. MVDr. Mikuláš Levkut, DrSc.Doc. MVDr. Viera Revajová, PhD.Doc. MVDr. Norbert Žilka, DrSc.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-P/ GVM-DiaMD/11 | **Course name:** Diagnostics of metabolic disorders

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 9.

Level of study: I.II.

Prerequisites: KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and K-P/GVM-AnArIn/11 - Andrology and artificial insemination and KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaAHF/GVM-Phys 2/14 - Physiology and K-P/GVM-Prop 2/16 - Propedeutics

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:
- Importance of the analysis of the internal environment
- expressing of the concentrations of electrolytes
- disorders of water and mineral metabolism
- disorders of acid-base balance

Recommended literature:
Meyer D.J. and Harvey J: Veterinary laboratory medicine: Interpretation and diagnosis. Elsevier Inc., 2004
DiBartola S.P.: Fluid, Electrolyte and Acid-Base Disorders in Small Animal Practice, 3rd ed., Saunders, 2006

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 10

A	B	C	D	E	FX
60.0	20.0	10.0	0.0	10.0	0.0

Course teachers:
Guarantor of the course: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM
Lecturer: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM
Practical teacher: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: RRZaDS/DTh-3. 1/16	**Course name:** Diploma thesis
Form, course-load and method of study: **Form of study:** Practical **Recommended course-load (in hours):** **Per week: Per study period:** 10s **Method of study:** present	
Number of credits: 0	
Recommended semester of the course study: 5.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course:	
Learning outcomes of the course:	
Brief outline of the course:	
Recommended literature:	
Language of instruction:	
Notes:	
Evaluation of the course Total number of evaluated students: 0	
nezap	zap.
0.0	0.0
Course teachers: Guarantor of the course: Lecturer: Practical teacher:	
Date of last modification: 14.04.2019	
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.	

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: RRZaDS/DTh-3.2/16	**Course name:** Diploma thesis
Form, course-load and method of study: **Form of study:** Practical **Recommended course-load (in hours):** **Per week: Per study period:** 10s **Method of study:** present	
Number of credits: 0	
Recommended semester of the course study: 6.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course:	
Learning outcomes of the course:	
Brief outline of the course:	
Recommended literature:	
Language of instruction:	
Notes:	
Evaluation of the course Total number of evaluated students: 0	
nezap	zap.
0.0	0.0
Course teachers: Guarantor of the course: Lecturer: Practical teacher:	
Date of last modification: 14.04.2019	
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.	

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: RRZaDS/DTh-4. 1/16	**Course name:** Diploma thesis
Form, course-load and method of study: **Form of study:** Practical **Recommended course-load (in hours):** **Per week: Per study period:** 10s **Method of study:** present	
Number of credits: 0	
Recommended semester of the course study: 7.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course:	
Learning outcomes of the course:	
Brief outline of the course:	
Recommended literature:	
Language of instruction:	
Notes:	

Evaluation of the course
Total number of evaluated students: 17

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course:
Lecturer:
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: RRZaDS/DTh-4.2/16	**Course name:** Diploma thesis
Form, course-load and method of study: **Form of study:** Practical **Recommended course-load (in hours):** **Per week: Per study period:** 10s **Method of study:** present	
Number of credits: 0	
Recommended semester of the course study: 8.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course:	
Learning outcomes of the course:	
Brief outline of the course:	
Recommended literature:	
Language of instruction:	
Notes:	

Evaluation of the course
Total number of evaluated students: 17

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course:
Lecturer:
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: RRZaDS/DTh-5.1/17	**Course name:** Diploma thesis
Form, course-load and method of study: **Form of study:** Practical **Recommended course-load (in hours):** **Per week: Per study period:** 10s **Method of study:** present	
Number of credits: 0	
Recommended semester of the course study: 9.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course:	
Learning outcomes of the course:	
Brief outline of the course:	
Recommended literature:	
Language of instruction:	
Notes:	
Evaluation of the course Total number of evaluated students: 127	
nezap	zap.
0.0	100.0
Course teachers: Guarantor of the course: Lecturer: Practical teacher:	
Date of last modification: 14.04.2019	
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.	

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: RRZaDS/DTh-5.2/17	**Course name:** Diploma thesis
Form, course-load and method of study: **Form of study:** Practical **Recommended course-load (in hours):** **Per week: Per study period:** 10s **Method of study:** present	
Number of credits: 0	
Recommended semester of the course study: 10.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course:	
Learning outcomes of the course:	
Brief outline of the course:	
Recommended literature:	
Language of instruction:	
Notes:	
Evaluation of the course Total number of evaluated students: 122	
nezap	zap.
0.0	100.0
Course teachers: Guarantor of the course: Lecturer: Practical teacher:	
Date of last modification: 14.04.2019	
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.	

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: RRZaDS/DTh-6./18	**Course name:** Diploma thesis
Form, course-load and method of study: **Form of study:** Practical **Recommended course-load (in hours):** **Per week: Per study period:** 10s **Method of study:** present	
Number of credits: 0	
Recommended semester of the course study: 11.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course:	
Learning outcomes of the course:	
Brief outline of the course:	
Recommended literature:	
Language of instruction:	
Notes:	

Evaluation of the course
Total number of evaluated students: 70

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course:
Lecturer:
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-V-EaVZZ/GVM-DB/15	**Course name:** Diseases of bees

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 1 **Per study period:** 13 / 13
Method of study: present

Number of credits: 3

Recommended semester of the course study: 6.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-Phys 2/14 - Physiology

Conditions for completion of the course:
The lectures are not obligatory and practicals are obligatory for all students

Learning outcomes of the course:
Final test exam in the end of semester

Brief outline of the course:
Students will be trained by practical dissections to know bees anatomy, to recognise infective or non-infective causative agents of honey bees diseases, parasitological examination of bees and bee colony, clinical routine methods of examination, sampling methods and pathogen determination and principal measures of therapy and prevention of bee diseases and clinical bee colony inspection.

Recommended literature:
1. Toporčák J.: Honey Bee Diseases and Pests. UVL Košice, 2000.
2. Shimanuki, H., Knox, D. A.: Diagnosis of Honey Bee Diseases, U.S. Department of Agriculture, 1991.,
3. Toporcak, J., Feldlaufer, M., Chmielewski, M., Hansen, H.: Honey bee Diseases and pests. CD, University of veterinary Medicine Kosice, 2004, ISBN: 80-8077-002-6

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 37

A	B	C	D	E	FX
81.08	13.51	2.7	2.7	0.0	0.0

Course teachers:
Guarantor of the course: Doc. MVDr. Juraj Toporčák, PhD.
Lecturer: Doc. MVDr. Juraj Toporčák, PhD.

Practical teacher: Doc. MVDr. Juraj Toporčák, PhD.
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-V-EaVZZ/GVM-DisEx/17	**Course name:** Diseases of exotic, ZOO animals and reptiles

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 4

Recommended semester of the course study: 9.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-Phys 2/14 - Physiology and KaVDCHZv/GVM-NutFeed 2/15 - Nutrition and feeding of animals and KaMBaI/GVM-Mic 2/15 - Microbiology and KaMBaI/GVM-Im/16 - Immunology and KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics and K-P/GVM-Prop 2/16 - Propedeutics and KaEaP/GVM-Epi 2/16 - Epizootology and KaEaP/GVM-Par 2/16 - Parasitology

Conditions for completion of the course:
To obtain credit, practical sessions must be attended or compensated together with the min 80% passed revision tests during the semester 12-15 week and 2 clinical protocols during clinical practise passed. The student can miss 3 lessons from each respective subject in one semester, of that on can be missed without compenstation.

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:
Jantošovič,J., a kol.: Choroby hydiny a exotických vtákov, M+M, Prešov, 1998
Jantošovič,J., a kol.: Choroby hydiny. Datahelp, košice, 1995
Škardová, I. et al.: Diseases of poultry with a section on cage birds and pigeons. Published by M & M, Presov,1998, UVM, Košice, ISBN 80-967727-8-3.
Škardová, I.: Diseases of ostriches. UVM,Košice,Issued by Publishing House, 2000, ISBN 80-88985-32-3
Harcourt-Brown, N.: Bsava Manual of Psittacine Birds, J.Wiley, 2005, 2nd ed.ISBN 0905214764,
Chitty,J.: Bsava Manual of Raptors and Passerine Birds, BSAVA, 2008, ISBN 9781905319046,
Cambell, T.W.: Avian and Exotic Animal Hematology and Cytology, Wiley-Blackwell, 3 ed., 2007, ISBN 9780813818115
Jordan, F. T. W.: Poultry diseases, London, Bailiere Tindall,1990, 23 ed. ISBN 0-7020-1339-0, 39/92.
Randall, C. J.: A colour atlas of diseases disorders of the domestic fowl, turkey. London, Wolfe Publishing, 1991, 2nd. ed. ISBN 0-7234-1628-1, 686/92.

Cambell, T. W.: Avian hematology and cytology, Ames, Iowa, 50014-8300, USA; Iowa State Univ. Press (1995), ed. 2, viii + 104 pp. ISBN 0-8138-2970-4. Boden: Poultry practice.
Calnek, B. W.: Diseases of poultry. Iowa, Univ. Press, 1991, 9, ISBN 0-8138-0429-9, 943/92.
Nesheim, M. C.: Poultry production, Philadelphia, LF, 1979, 20 ed., 779/91
Hofstad, M. S.: Diseases of poultry. Iowa, Univ. Press, 1972, 6 ed., 924/90.
Biester, H. E.: Diseases of poultry. Iowa, Univ. Press, 1965, 5 ed. 921/90.
Poultry service workshop. Minnesota, Col.of Vet. Med., 1988, 929/90.
Other recommended literature
Hofstad, M. S. et al.: Diseases of poultry, Ames Iowa 50010, USA, Iowa State Univ. Press, 1984.
Bowmeer: The most important poultry diseases. Nobilis, Poultry Dvision, Internal International N. V., Holland, Boxmeer, 1984.
Thear, K.: Free range poultry, 1990, 179 pp. Ipswich, UK, Farming Press.
Austic, R. E., Nesheim, M. C.: Poultry production, 1990, 325 pp., Philadelphia, USA, Lea Febiger.
Curtis, P.: A handbook of poultry and game birds diseases. Dept. of Vet. Clinical Science, Univ. PO Box 147, Liverpool, L69 3BX.UK, 1990, ed.3, 69 pp.
Smith, A. J.: Poultry. Centre for tropical vet. med., Univ. Of Edinburgh, Edinburgh, UK, 1990, vi + 218 pp. Macmillan Publishers Ltd. 1990.
Panda, B., Mohapatra, S. C.: Poultry production. 1989, 190 pp. New Delhi, India, Indian Council of Agricultural Research, 1989.
Porter, V.: Domestic and ornamental fowl. 1989, 266 pp., London, UK, Pelham Books Ltd.1989.

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 22

A	B	C	D	E	FX
54.55	13.64	13.64	4.55	0.0	13.64

Course teachers:
Guarantor of the course: MVDr. Ladislav Molnár, PhD.
Lecturer: MVDr. Ladislav Molnár, PhD.MVDr. Vladimír VrabecMVDr. Peter Major, PhD.
Practical teacher: MVDr. Ladislav Molnár, PhD.MVDr. Vladimír VrabecMVDr. Peter Major, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-K/ SE DofHr/18	**Course name:** Diseases of horses

Form, course-load and method of study:
Form of study:
Recommended course-load (in hours):
Per week: Per study period:
Method of study: present

Number of credits: 10

Recommended semester of the course study: 11., 12..

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 283

A	B	C	D	DZ-N	DZ-P	E	FX
47.35	21.91	16.25	7.42	0.0	0.0	6.71	0.35

Course teachers:
Guarantor of the course:
Lecturer:
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-K/GVM-SSE-DHr I./17	**Course name:** Diseases of horses I.

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 2

Recommended semester of the course study: 10.

Level of study: I.II.

Prerequisites: K-K/GVM-ObReRD/16 - Obstetrics, reproduction and reproduction disorders

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:
Brief content of subject:
Compulsory study subject Diseases of horses / Reproduction of horses is providing knowledge and develop skills in the following areas: Reproduction of mares: the influence of photoperiod and managing the transient period of mares, management of estrus cycle and of ovulation in mares, management of breeding, irregularities of estrus cycle and ovulation in mares, diseases of tubular organs of reproductive apparatus, determination of pregnancy, abnormalities in pregnancy of mares, induction of abort, delivery in mares, assistance in regular delivery, management of irregular delivery, retention of fetal membrane, care about the mare and the foal after delivery, non/physiological lactation, puerperal diseases, course of infertility in mares, transfer of early embryos, surgery of reproductive organs. Reproduction of stallions: semen collection, preparation of insemination dose, management of insemination, infertility of stallions, reproduction organ diseases, surgery in reproduction.

Recommended literature:
Recommendation educational literature:
Current therapy in equine reproduction; Samper, J.C., Pycock, J.F., McKinnon, A., Saunders, Elsevier, 2007
2. Current therapy in large animal Theriogenology 2; Youngquist, R. S., Threlfall, W., Saunders Elsevier, 2007
3. Equine Internal Medicine ; Reed, S., Bayly, W., Sellon D., Saunders, Elsevier, 2004
4. Equine emergencies treatment and procedures; Orsini, J., Divers, T., Saunders, Elsevier, 2008
5. Manual of equine reproduction: Brinsko Steven; Mosby Elsevier 2011,1-325

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 89

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Prof. MVDr. Igor Valocký, PhD.
Lecturer: Prof. MVDr. Igor Valocký, PhD.Prof. MVDr. František Novotný, PhD.Doc. MVDr. Ján Bílek, PhD.MVDr. Eva Styková, PhD.MVDr. Vladimír Hura, PhD.MVDr. Michaela Karamanová, PhD.MVDr. Petra Horňáková, PhD.MVDr. Zdeněk Žert, CSc.
Practical teacher: Prof. MVDr. Igor Valocký, PhD.Prof. MVDr. František Novotný, PhD.Doc. MVDr. Ján Bílek, PhD.MVDr. Vladimír Hura, PhD.MVDr. Michaela Karamanová, PhD.MVDr. Petra Horňáková, PhD.MVDr. Zdeněk Žert, CSc.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-K/ SSE-DHr II./18	**Course name:** Diseases of horses II.

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 6 / 7 **Per study period:** 78 / 91
Method of study: present

Number of credits: 0

Recommended semester of the course study: 11.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:
Brief outline of the subject:
Brief outline of the subject Internal diseases of horses
After learning the techniques, methods and procedures used in internal medicine of horses and after passing all practical lessons, lectures and credits the student will be able to analyze risks of internal diseases, place catheter for long-lasting fluid therapy, make a sampling, interpret laboratory results, provide drug administration, manage emergency situations, syndrome of systemic inflammatory response, overheating, shock; manage cardiovascular diseases, diseases of gastrointestinal tract, skin, liver, blood and vascular system, diseases of immune and endocrine system, diseases of musculoskeletal system, nervous system as so as eye diseases, diseases of respiratory tract, urinary tract, foal diseases. Student will be able to manage the altered homeostasis and homeorhesis, manage and solve intoxications, provide pain management, euthanasia, recommend and manage hospitalization of patient including feeding, nursery care and management of convalescing horse. Student will be able to provide knowledgeable consultation for breeder in how to establish breeding, raise farming economy, reduce the risk of internal equine diseases; provide knowledgeable consultation for staff and breeders on recognizing symptoms of the internal diseases in horses, caring for a sick horse and a horse during convalescence.
Brief outline of the subject Surgery and orthopedics of horses
In subject Equine surgery and orthopedics the students will become familiar with diagnosis and therapy of common surgical diseases of horses. During practical lessons the students will train basic surgical procedures like castration and tooth floating. In the field of orthopaedic surgery the student will be able to perform diagnostic approach to lameness in horses, provide basic surgical procedures on the hoof and X-ray and ultrasound examination of the locomotor system of the horse.
Brief outline of the subject Infectious and parasitic diseases of horses
-analysis of epizootological situation with focus on the incidence of the infectious and parasitic diseases of horses in Slovak Republic, Europe and in the world;
-clinical diagnosis of equine infectious and parasitic diseases, including differential diagnosis;

-methodological procedures used in the laboratory diagnosis of infectious and parasitic diseases of horses.
Topics – Internal diseases of horses
1. Dermatological diseases in horses
2. Cardiovascular diseases in horses
3. Diseases of upper and lower respiratory tract in horses
4. Diseases of bronchi and lungs in horses
5. Diseases of oral cavity, esophagus and stomach in horses
6. Diseases of intestine in horses
7. Diseases in horses with signs of colic
8. Diseases of urinary tract: renal diseases, diseases of bladder, ureters and urethra
9. Diseases of skeletal muscles, myopathies
10. Diseases of nervous system in horses with signs of ataxia and trembling
11. Diseases of nervous system in horses that lead to behavioral changes, collapse, diseases of peripheral nerves
12. Liver diseases, diseases of hematopoietic system
13. Endocrine diseases in horses
14. Metabolic diseases in horses
15. Intoxications in horses
16. Diseases in foals
17. Critical condition, shock, SIRS
18. Medicaments used in the therapy of internal diseases of horses and foals
Topics - Surgery and orthopedics of horses
1. Diseases of tendons
2. Joint and bone diseases
3. Diseases of corium and hoof capsule
4. Laminitis
5. Navicular syndrome
6. Orthopedic diseases of foals
7. Wobbler syndrome, cauda equina syndrome, disorders of the back
8. Surgical therapy of the gastrointestinal tract
9. Equine dental care, Equine temporomandibular joint dysfunction syndrome (ETDS)
10. Respiratory tract surgery
11. Guttural Pouch surgery
12. Herniorrhaphy
13. Equine castration
14. Cryptorchidectomy
15. Eye diseases
16. Urinary tract surgery
17. Equine anaesthesia under hospital and field conditions
18. Horse shoeing
19. Equine foot surgery
20. Equine trauma and intensive care
Topics - Infectious and parasitic diseases of horses
1. Diagnosis of infectious and parasitic diseases of the respiratory tract
2. Diagnosis of infectious and parasitic diseases of the gastrointestinal tract
3. Diagnosis of infectious equine encephalitis and protozooses related to nervous system
4. Diagnosis of infectious and parasitic diseases of the cardiovascular system
5. Diagnosis of infectious and parasitic diseases of the mare´s urogenital tract

6. Diagnosis of infectious and parasitic diseases of the stallion´s urogenital tract
7. Diagnosis of infectious and parasitic diseases of mucous membranes and eyes of horses
8. Diagnosis of infectious and parasitic diseases of horses with natural focal character
9. The most important infectious and parasitic zoonotic diseases in horses
10. General principles and methods of prevention and control of infectious and parasitic diseases of horses
11. Specific prophylaxis and equine vaccination programs
12. Prevention and control of infectious and parasitic diseases of horses in the Slovak Republic
13. International cooperation, organization and coordination in the field of prevention and control of infectious and parasitic diseases of horses

Recommended literature:

Recommendation educational literature:

1. Equine Internal Medicine; Reed, S., Bayly, W., Sellon D., Saunders, Elsevier.; 2004
2. Equine emergencies treatment and procedures; Orsini, J., Divers, T., Saunders Elsevier, 2008
3. Current therapy in equine medicine; Robinson, N., Saunders, Elsevier.; 2003
4. Atlas of equine endoscopy; Slovis, N., Mosby, 2004
5. Cardiology of the horse; Marr, C., Bowen I.,; Saunders, Elsevier. 2010
6. Stashak TS: Adams Lameness in Horses 5th Ed., Lippincott Williams and Wilkins 2001, pp.1008
7. Colahan PT, Merritt AM, Moore JN, Mayhew IG: Eqine Medicine and Surgery. 5th EdMosby 1999, pp. 2076
8. Auer JA, Stick JA: Equine Surgery 2nd Ed, WB Saunders 1999, pp.960
9. Adams SB, Fesseler JF: Atlas of Equine Surgery, WB Saunders 2000, pp 428
10. McGorum BC et al: Equine Respiratory Medicine and Surgery, WB Saunders 2007, pp 705
11. Hall LW et al: Veterinary Anaesthesia, WB Saunders 2001, pp 561
12. Sellon, D.C, a Long, M.T.: Equine infectious diseases (2007)
13. Atlas of equine ultrasonography; Jessica A. Kidd, Kristina G. Lu , Michele L. Frazer. Wiley Blackwell, 2014

Language of instruction:

english

Notes:

Evaluation of the course

Total number of evaluated students: 423

nezap	zap.
0.0	100.0

Course teachers:

Guarantor of the course: Prof. MVDr. Igor Valocký, PhD.
Lecturer: Prof. MVDr. Igor Valocký, PhD.Prof. MVDr. František Novotný, PhD.Doc. MVDr. Ján Bílek, PhD.MVDr. Eva Styková, PhD.MVDr. Vladimír Hura, PhD.MVDr. Michaela Karamanová, PhD.Doc. MVDr. Alica Kočišová, PhD.MVDr. Milan Čížek, PhD.MVDr. Petra Horňáková, PhD.MVDr. Zdeněk Žert, CSc.
Practical teacher: Prof. MVDr. Igor Valocký, PhD.Prof. MVDr. František Novotný, PhD.Doc. MVDr. Ján Bílek, PhD.MVDr. Vladimír Hura, PhD.MVDr. Michaela Karamanová, PhD.Doc. MVDr. Alica Kočišová, PhD.MVDr. Milan Čížek, PhD.MVDr. Petra Horňáková, PhD.MVDr. Zdeněk Žert, CSc.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaEaP/GVM-DiLabAMan/16	**Course name:** Diseases of laboratory animals and management of clinical experiments
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 2 **Per study period:** 26 / 26 **Method of study:** present	
Number of credits: 3	
Recommended semester of the course study: 8.	
Level of study: I.II.	
Prerequisites: KaVDCHZv/GVM-NutFeed 2/15 - Nutrition and feeding of animals and KaMBaI/GVM-Mic 2/15 - Microbiology and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and KaŽPVLE/GVM-AnHyW/11 - Animal hygiene and welfare and KaŽPVLE/GVM-AnE/16 - Animal ethology	
Conditions for completion of the course: Block completion of lectures and exercises; Student presentation - credit; Exam test	
Learning outcomes of the course:	
Brief outline of the course: Training in animal welfare, diseases of laboratory animals, husbandry management in laboratory facilities.	
Recommended literature: Directive 2010/63/EU on the protection of animals used for scientific purposes, adopted on 22 September 2010. Guide for the Care and Use of Laboratory Animals, Institute of Laboratory Animal Resources, National Academy Press, Washington DC., 1996. Laboratory Animal Medicine (Second Edition), J.G. Fox, L.C. Anderson, F.M. Loew and F.W. Quimby (Eds.), Elsevier Inc. 2002. Laboratory Animal Management and Welfare, S. Wolfensohn and M. Lloyd, Wiley-Blackwell, Oxford University Press, 2013.	
Language of instruction: English	
Notes: The subject is provided for minimum of 5 students.	

Evaluation of the course
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: MVDr. Zuzana Hurníková, PhD.
Lecturer: MVDr. Zuzana Hurníková, PhD.MVDr. Ladislav Molnár, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-O/ SE DofPg/18	**Course name:** Diseases of pigs

Form, course-load and method of study:
Form of study:
Recommended course-load (in hours):
Per week: Per study period:
Method of study: present

Number of credits: 5

Recommended semester of the course study: 11., 12..

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 270

A	B	C	D	DZ-N	DZ-P	E	FX
55.56	31.11	9.63	2.22	0.0	0.0	1.11	0.37

Course teachers:
Guarantor of the course:
Lecturer:
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-O/GVM-SSE-DPg I./17	**Course name:** Diseases of pigs I.

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 3 / 3 **Per study period:** 39 / 39
Method of study: present

Number of credits: 2

Recommended semester of the course study: 10.

Level of study: I.II.

Prerequisites: KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and KaFaT/GVM-Tox/16 - Toxicology and K-P/GVM-Prop 2/16 - Propedeutics and K-K/GVM-ObReRD/16 - Obstetrics, reproduction and reproduction disorders and KaEaP/GVM-Epi 2/16 - Epizootology and K-MZ/GVM-GeSAn 2/16 - General surgery and anesthesiology and KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaEaP/GVM-Par 2/16 - Parasitology and K-P/GVM-AnArIn/11 - Andrology and artificial insemination

Conditions for completion of the course:
• 100% attendance at practical lessons, practising in the clinic, credit

Learning outcomes of the course:

Brief outline of the course:
The subject "Internal diseases of swine" interlocks to theoretical and pre-clinical subjects including pharmacology, toxicology, parasitology, pathological anatomy, and clinical diagnostics. The subject is focused on both theoretical and practical knowledge and skills in diagnosis, therapy, and prevention of organ, metabolic, and production diseases in swine. Within the subject "Surgery and orthopaedics of swine", the students are trained in special diagnosing and surgical procedures in various categories of pigs.

Recommended literature:
Diseases of Swine: B. E. Straw, J.J. Zimmerman, S. D´Allaire, D. J. Taylor, (eds.)., ninth edition. 1153 pp.Blackwell Publishing Professional, Ames, Iowa, 2006. $199.99. ISBN-13:978-0-8138-1703-3.
Diseases of Swine: J. J. Zimmerman, L. A. Karriker, A. Ramrez, K. J. Schwartz, G. W. Stevenson, 10th Edition, 1008 pages, April 2012, Wiley-Blackwell, ISBN: 978-0-8138-2267-9

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 24

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Jaroslav Novotný, PhD.
Lecturer: MVDr. Jaroslav Novotný, PhD.MVDr. Róbert Link, PhD.Prof. MVDr. Peter Reichel, CSc.
Practical teacher: MVDr. Jaroslav Novotný, PhD.MVDr. Róbert Link, PhD.Prof. MVDr. Peter Reichel, CSc.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-O/ SSE-DPg II./18	**Course name:** Diseases of pigs II.
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 3 / 4 **Per study period:** 39 / 52 **Method of study:** present	
Number of credits: 0	
Recommended semester of the course study: 11.	
Level of study: I.II.	
Prerequisites: ((KaFaT/BSc-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics or KaFaT/BSc-JSP-PhrPT 2/16 - Pharmacology, pharmacy and therapeutics) and (KaFaT/ BSc-Tox/16 - Toxicology or KaFaT/BSc-JSP-Tox/16 - Toxicology) and (K-P/BSc-Prop 2/16 - Propedeutics or K-P/BSc-JSP-Prop 2/16 - Propedeutics) and (K-MZ/BSc-GeSAn 2/16 - General surgery and anaestesiology or K-MZ/BSc-JSP-GeSAn 2/16 - General surgery and anaestesiology) and (KaEaP/BSc-Par 2/16 - Parasitology or KaEaP/BSc-JSP-Par 2/16 - Parasitology) and (KaPAaPF/BSc-PaPhy 2/16 - Pathological physiology or KaPAaPF/BSc-JSP-PaPhy 2/13 - Pathological physiology) and KaEaP/BSc-Epi 2/17 - Epizootology and K-P/BSc-AnArIn/17 - Andrology and artificial insemination and KaPAaPF/BSc-PaA 2/17 - Pathological anatomy and KaEaP/BSc-SSE-CDA/17 - Contagious diseases of animals and K-K/BSc-ObReRD/17 - Obstetrics, reproduction and reproduction disorders) or (KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and K-P/GVM-Prop 2/16 - Propedeutics and K-K/GVM-ObReRD/16 - Obstetrics, reproduction and reproduction disorders and KaEaP/GVM-Epi 2/16 - Epizootology and K-MZ/GVM-GeSAn 2/16 - General surgery and anesthesiology and KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaEaP/GVM-Par 2/16 - Parasitology and K-P/GVM-AnArIn/11 - Andrology and artificial insemination and KaEaP/GVM-SSE-CDA/17 - Contagious diseases of animals)	
Conditions for completion of the course: 100% attendance at practical lessons, practising in the clinic, graded credit	
Learning outcomes of the course:	
Brief outline of the course:	
Recommended literature: Diseases of Swine: B. E. Straw, J.J. Zimmerman, S. D´Allaire, D. J. Taylor, (eds.)., ninth edition. 1153 pp.Blackwell Publishing Professional, Ames, Iowa, 2006. $199.99. ISBN-13:978-0-8138-1703-3. Diseases of Swine: J. J. Zimmerman, L. A. Karriker, A. Ramrez, K. J. Schwartz, G. W. Stevenson, 10th Edition, 1008 pages, April 2012, Wiley-Blackwell, ISBN: 978-0-8138-2267-9	
Language of instruction: English	

Notes:

Evaluation of the course
Total number of evaluated students: 249

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Jaroslav Novotný, PhD.
Lecturer: MVDr. Jaroslav Novotný, PhD.MVDr. Róbert Link, PhD.Doc. MVDr. Anna Ondrejková, PhD.MVDr. Marián Prokeš, PhD.Prof. MVDr. Peter Reichel, CSc.MVDr. Gabriela Štrkolcová, PhD.MVDr. Ľuboš Korytár, PhD.MVDr. Karol Račka
Practical teacher: MVDr. Jaroslav Novotný, PhD.MVDr. Róbert Link, PhD.Doc. MVDr. Anna Ondrejková, PhD.MVDr. Marián Prokeš, PhD.Prof. MVDr. Peter Reichel, CSc.MVDr. Gabriela Štrkolcová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-V-EaVZZ/GVM-DisPol/17	**Course name:** Diseases of poultry
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 2 **Per study period:** 26 / 26 **Method of study:** present	
Number of credits: 3	
Recommended semester of the course study: 10.	
Level of study: I.II.	
Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-Phys 2/14 - Physiology and KaVDCHZv/GVM-AnHus 2/14 - Animal husbandry and technology of animal production and KaVDCHZv/GVM-NutFeed 2/15 - Nutrition and feeding of animals and KaMBaI/GVM-Mic 2/15 - Microbiology and KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics and K-P/GVM-Prop 2/16 - Propedeutics and KaEaP/GVM-Epi 2/16 - Epizootology and KaEaP/GVM-Par 2/16 - Parasitology	
Conditions for completion of the course:	
Learning outcomes of the course:	
Brief outline of the course:	
Recommended literature: Recommended Literature: Škardová, I. et al.: Diseases of poultry with a section on cage birds and pigeons. Published by M & M, Presov,1998, UVM, Košice, ISBN 80-967727-8-3. Škardová, I.: Diseases of ostriches. UVM,Košice,Issued by Publishing House, 2000, ISBN 80-88985-32-3 Jordan, F. T. W.: Poultry diseases, London, Bailiere Tindall,1990, 23 ed. ISBN 0-7020-1339-0, 39/92. Randall, C. J.: A colour atlas of diseases disorders of the domestic fowl, turkey. London, Wolfe Publishing, 1991, 2nd. ed. ISBN 0-7234-1628-1, 686/92. Cambell, T. W.: Avian hematology and cytology, Ames, Iowa, 50014-8300, USA; Iowa State Univ. Press (1995), ed. 2, viii + 104 pp. ISBN 0-8138-2970-4. Boden: Poultry practice. Calnek, B. W.: Diseases of poultry. Iowa, Univ. Press, 1991, 9, ISBN 0-8138-0429-9, 943/92. Nesheim, M. C.: Poultry production, Philadelphia, LF, 1979, 20 ed., 779/91 Hofstad, M. S.: Diseases of poultry. Iowa, Univ. Press, 1972, 6 ed., 924/90. Biester, H. E.: Diseases of poultry. Iowa, Univ. Press, 1965, 5 ed. 921/90. Poultry service workshop. Minnesota, Col.of Vet. Med., 1988, 929/90. Other recommended literature Hofstad, M. S. et al.: Diseases of poultry, Ames Iowa 50010, USA, Iowa State Univ. Press, 1984.	

Bowmeer: The most important poultry diseases. Nobilis, Poultry Dvision, Internal International N. V., Holland, Boxmeer, 1984.
Thear, K.: Free range poultry, 1990, 179 pp. Ipswich, UK, Farming Press.
Austic, R. E., Nesheim, M. C.: Poultry production, 1990, 325 pp., Philadelphia, USA, Lea Febiger.
Curtis, P.: A handbook of poultry and game birds diseases. Dept. of Vet. Clinical Science, Univ. PO Box 147, Liverpool, L69 3BX.UK, 1990, ed.3, 69 pp.
Smith, A. J.: Poultry. Centre for tropical vet. med., Univ. Of Edinburgh, Edinburgh, UK, 1990, vi + 218 pp. Macmillan Publishers Ltd. 1990.
Panda, B., Mohapatra, S. C.: Poultry production. 1989, 190 pp. New Delhi, India, Indian Council of Agricultural Research, 1989.
Porter, V.: Domestic and ornamental fowl. 1989, 266 pp., London, UK, Pelham Books Ltd.1989.
Proceedings of the first conference of the European Committee of the Association of Avian Veterinarians , 1991, Viena, Austria.
Seminar and Workshop on Companion Birds in Veterinary Practice. Murdoch Univ. Foundation for Continuing Vet. Educ., 1986. School of Vet. Studies. Gilles plains College of Tabe South Austria.Coles: Avian Medicine and surgery (0632033568).

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 29

A	B	C	D	E	FX
41.38	20.69	20.69	6.9	6.9	3.45

Course teachers:
Guarantor of the course: MVDr. Ladislav Molnár, PhD.
Lecturer: MVDr. Ladislav Molnár, PhD.MVDr. Vladimír VrabecMVDr. Peter Major, PhD.
Practical teacher: MVDr. Ladislav Molnár, PhD.MVDr. Vladimír VrabecMVDr. Peter Major, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-P/ SE DofRu/18	**Course name:** Diseases of ruminants

Form, course-load and method of study:
Form of study:
Recommended course-load (in hours):
Per week: Per study period:
Method of study: present

Number of credits: 5

Recommended semester of the course study: 11., 12..

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 258

A	B	C	D	DZ-N	DZ-P	E	FX
39.92	24.81	14.73	10.47	0.0	0.0	9.69	0.39

Course teachers:
Guarantor of the course:
Lecturer:
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-P/GVM-SSE-DRu I.2/17	**Course name:** Diseases of ruminants I.

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 3 / 3 **Per study period:** 39 / 39
Method of study: present

Number of credits: 5

Recommended semester of the course study: 10.

Level of study: I.II.

Prerequisites: K-P/GVM-Prop 2/16 - Propedeutics and KaMBaI/GVM-Mic 2/15 - Microbiology and KaVDCHZv/GVM-NutFeed 2/15 - Nutrition and feeding of animals and KaEaP/GVM-Par 2/16 - Parasitology and KaEaP/GVM-Epi 2/16 - Epizootology and K-MZ/GVM-GeSAn 2/16 - General surgery and anesthesiology

Conditions for completion of the course:
participation in practicals, credit tests

Learning outcomes of the course:
Students are able to make diagnosis, treat, and organise prevention of ruminatnt diseases.

Brief outline of the course:
1) Diseases of GIT 2) Respiratory diseasesC 3) Reproduction diseases 4) Locomotor system diseases 5) Diseases of mammary gland 6) Skin diseases 7) Cardiovascular diseases 8) Nervous system diseases 9) Production and metabolic disorders 10) Polysystemic infections of ruminants

Recommended literature:
Radistitis et al.: Veterinary Medicine, 10th Ed., Elsevier Saunders, London, 2006.
Divers JD, Peek SF: Rebhun's Diseses of dairy cattle, St. Louis: Elsevier Inc, 2008.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 24

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM
Lecturer: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHMDoc. MVDr. Oskar Nagy, PhD., Dip. ECBHMMVDr. Marián Kadaši, PhD.

Practical teacher: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHMDoc. MVDr. Oskar Nagy, PhD., Dip. ECBHMMVDr. Marián Kadaši, PhD.MVDr. Michal Dolník, PhD.
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-P/ SSE-DRu II./18	**Course name:** Diseases of ruminants II.

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 3 / 3 **Per study period:** 39 / 39
Method of study: present

Number of credits: 0

Recommended semester of the course study: 11.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
participation in practicals, credit tests

Learning outcomes of the course:
Students are able to make diagnosis, treat, and organise prevention of ruminatnt diseases.

Brief outline of the course:
1) Diseases of GIT 2) Respiratory diseasesC 3) Reproduction diseases 4) Locomotor system diseases 5) Diseases of mammary gland 6) Skin diseases 7) Cardiovascular diseases 8) Nervous system diseases 9) Production and metabolic disorders 10) Polysystemic infections of ruminants

Recommended literature:
Radistitis et al.: Veterinary Medicine, 10th Ed., Elsevier Saunders, London, 2006. Divers JD, Peek SF: Rebhun's Diseses of dairy cattle, St. Louis: Elsevier Inc, 2008.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 198

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM
Lecturer: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHMDoc. MVDr. Oskar Nagy, PhD., Dip. ECBHMMVDr. Marián Kadaši, PhD.
Practical teacher: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHMDoc. MVDr. Oskar Nagy, PhD., Dip. ECBHMMVDr. Marián Kadaši, PhD.MVDr. Michal Dolník, PhD.MVDr. Gabriel Lazar, CSc.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-MZ/SE DofSA/18	**Course name:** Diseases of small animals

Form, course-load and method of study:
Form of study:
Recommended course-load (in hours):
Per week: Per study period:
Method of study: present

Number of credits: 10

Recommended semester of the course study: 11., 12..

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 283

A	B	C	D	DZ-N	DZ-P	E	FX
31.1	17.67	28.27	10.25	0.0	0.0	11.31	1.41

Course teachers:
Guarantor of the course:
Lecturer:
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-V-EaVZZ/GVM-DisSmMa/16	**Course name:** Diseases of small mammals and laboratory animals

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 7.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-Phys 2/14 - Physiology and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics

Conditions for completion of the course:
100 % presence at the practicals

Learning outcomes of the course:
Student obtains the basics of up-to-date legislation valid in welfare of clinical experiments, basics in clinical diagnostics in laboratory animals and practical skills in sampling methods used in clinical research studies

Brief outline of the course:

Recommended literature:
Quesenberry,K.E., Carpenter,J.W.: Ferrets, Rabbits, and Rodents: Clinical Medicine and Surgery. 2012, Elsevier Saunders, ISBN: 978-1-4160-6621-7 Meredith,A., Lord,B.: BSAVA Manual of Rabbit Medicine. 2014, ISBN 978-1-905319-49-7 Harcourt-Brown,F., Chitty,J.: BSAVA Manual of Rabbit Surgery, Dentistry and Imaging. 2013, Wiley, ISBN 978-1-905319-41-1 Varga,M.,Lumbis,R.,Gott,L.: BSAVA Manual of Exotic Pet and Wildlife Nursing. 2012,Quedgeley, ISBN 978-1-905319-35-0 Keeble,E., Meredith,A.: Manual of Rodents and Ferrets. 2009, Wiley, ISBN 978-1-905319-08-4

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 72

A	B	C	D	E	FX
27.78	48.61	13.89	5.56	4.17	0.0

Course teachers:
Guarantor of the course: MVDr. Vladimír Vrabec

Lecturer: MVDr. Vladimír Vrabec Practical teacher:
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaŽPVLE/GVM-Eco/14	**Course name:** Economy

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 4

Recommended semester of the course study: 4.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
Graduation in the sense of the Study Guidelines of the UVMP in Košice (article No.6 and 13-16). The student is obliged to defend his own semestrial work (Business plan). For the credit award it is essential that the case study is completed in time.

Learning outcomes of the course:
Subject is divided into two parts. The first part examines the basis for BUSINESS OF VETERINARY SURGEONS. In which student will learn basic terminology of business, understand the particulars of financial statements and creation of Profit /Loss. The second part deals with the basis for ANIMAL HEALTH ECONOMY, in which students learn the basics of decision-making in the vet field.

Brief outline of the course:
1. Economics (micro-, macro-), economy, Veterinary management and marketing.
2. Business Plan (purpose, functions, outline)
3. Types of Business Organization.
4. Financial and Managerial Accounting.
5. Double and Single – Entry Accounting (comparison, statements and recording)
6. Balance Sheet – assets and capital classification, B/S equation
7. Assets – measurement/valuation and output values
8. Depreciation (for account and tax purposes)
9. Cost and Revenue Terms (cost-expenditure, revenue-income) and Cost Classification (prime and conversion costs, direct and indirect costs, Cost Classifications for Predicting Cost Behaviour
10. Profit/Loss Calculation in Double and Single–Entry Accounting
11. CVP Method (BEP – linear and nonlinear cost behaviour)
12. Basics of Animal health economics.
13. Presentation of semestrial works.

Recommended literature:
1. Sydney C. James, Philip R. Eberle :Economic and Business Principles in Farm Planning and Production, Blackwell Publishing Professional, 2000 2. John SM Bower, John N Gripper, Peter L Gripper and Dixon Gunn:Veterinary Practice Management , Blackwell Science Ltd.,

2001 3. Jerry L. Simmons: Veterinary Practice Management: Building Profit and Value, Mosby, 1997 4. Malcom Getz: Veterinary Medicine in Economic Transition ,1997 • Act 595/2003 from December 4, 2003, Income Tax Act • Act 513/1991, Commercial Code • Act no. 431/2002 Coll. on Accounting

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 77

A	B	C	D	E	FX
7.79	10.39	15.58	31.17	35.06	0.0

Course teachers:
Guarantor of the course: MVDr. Ing. Jana Korimová, PhD.
Lecturer: MVDr. Ing. Jana Korimová, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaFaT/GVM-EcTox/16	**Course name:** Ecotoxicology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 8.

Level of study: I.II.

Prerequisites: KaChBChBF/GVM-Ch/16 - Chemistry and KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaAHF/GVM-Phys 2/14 - Physiology

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:
Basic terms in the subject Ecotoxicology
OECD and EPA guidelines for toxicity testing of chemicals in non-target organisms
Ecotoxicological risk assessment in non-target organisms

Recommended literature:
1. C.H. Walker, R.M. Sibly, S.P. Hopkin, D.B. Peakall: Principles of Ecotoxicology, Fourth Edition, CRC Press, 2012.
2. PowerPoint presentations

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: Doc. MVDr. Marcel Falis, PhD.
Lecturer:
Practical teacher: Doc. MVDr. Marcel Falis, PhD.MVDr. Rastislav Sabo, PhD.MVDr. Vladimír Petrovič, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaEaP/GVM-Epi 1/11	**Course name:** Epizootology
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 2 **Per study period:** 26 / 26 **Method of study:** present	
Number of credits: 0	
Recommended semester of the course study: 7.	
Level of study: I.II.	
Prerequisites: KaŽPVLE/GVM-AnHyW/11 - Animal hygiene and welfare	
Conditions for completion of the course: 100% attendance on practical lessons 75% attendance on lectures credit test (51%) oral exam (3 questions) pregnat students are not alowed to attend the subject	
Learning outcomes of the course: Ability to get basic knowledge on epizootiology and infectious diseases acoording to OIE requirements, dealing with relations between infectious agents, susceptible hosts and enviroment, gathers information about infectious diseases diagnostics	
Brief outline of the course: • Basic epizootiology principles and definitions • Laboratory methods used in epizootiology • Infectious diseases (viruses, bacteria, fungi, prions) • Clinical and laboratory diagnostics of selected infectious diseases	
Recommended literature: R.D. Smith: Veterinary Clinical epidemiology, Third Edition, Taylor and Francis Group, LLC, 2006, 249pp Sergeant and Perkins: Epidemiology for field veterinarians, an introduction, CABI, 2015, ISBN:9781845936839, 311pp	
Language of instruction: english	
Notes: pregnat students are not alowed to attend the subject	

Evaluation of the course
Total number of evaluated students: 132

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Dr. h. c. Prof. MVDr. Jana Mojžišová, PhD.
Lecturer: Dr. h. c. Prof. MVDr. Jana Mojžišová, PhD.MVDr. Milan Čížek, PhD.MVDr. Boris Vojtek, PhD.MVDr. Peter Smrčo, PhD.Prof. Ing. Štefan Vilček, DrSc.MVDr. René Mandelík, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaEaP/GVM-Epi 2/16	**Course name:** Epizootology
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 3 **Per study period:** 26 / 39 **Method of study:** present	
Number of credits: 5	
Recommended semester of the course study: 8.	
Level of study: I.II.	
Prerequisites: KaŽPVLE/GVM-AnHyW/11 - Animal hygiene and welfare and KaPAaPF/ GVM-PaPhy 2/15 - Pathological physiology and KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics and KaMBaI/GVM-Im/16 - Immunology and KaHTP/GVM-FM/15 - Food microbiology and K-P/GVM-Prop 1/16 - Propedeutics and K-V-EaVZZ/GVM-DB/15 - Diseases of bees	
Conditions for completion of the course: 100% attendance on practical lessons 75% attendance on lectures credit test (51%) oral exam (3 questions) pregnat students are not alowed to attend the subject	
Learning outcomes of the course: Ability to get basic knowledge on epizootiology and infectious diseases acoording to OIE requirements, dealing with relations between infectious agents, susceptible hosts and enviroment, gathers information about infectious diseases diagnostic	
Brief outline of the course: Brief outline of the subject: • Basic epizootiology principles • Laboratory methods used in epizootiology • Infectious diseases (viruses, bacteria, fungi, prions) • Clinical and laboratory diagnostics of infectious diseases	
Recommended literature:	
Language of instruction:	
Notes:	

Evaluation of the course
Total number of evaluated students: 135

A	B	C	D	E	FX
20.74	19.26	22.22	21.48	14.07	2.22

Course teachers:
Guarantor of the course: Dr. h. c. Prof. MVDr. Jana Mojžišová, PhD.
Lecturer: Dr. h. c. Prof. MVDr. Jana Mojžišová, PhD.MVDr. Milan Čížek, PhD.MVDr. Boris Vojtek, PhD.MVDr. Peter Smrčo, PhD.Prof. Ing. Štefan Vilček, DrSc.MVDr. René Mandelík, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: RRZaDS/GVM-EP 1/16	**Course name:** Extramural practice

Form, course-load and method of study:
Form of study: Practical
Recommended course-load (in hours):
Per week: Per study period: 80s
Method of study: present

Number of credits: 4

Recommended semester of the course study: 8.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
Completion of 80 hours under supervision of private veterinary doctors in Slovak Republic or abroad. The experience has to be completed by the end of respective academic year (i.e. no later than by August 31) and a written, signed and stamped confirmation has to be presented at the registration to the next year of study.

Learning outcomes of the course:

Brief outline of the course:
The aim of professional experience is to get acquainted with the organisation and practical work of private veterinary doctors. The students are practising in veterinary surgeries and clinics, performing veterinary duties (preventive, prophylactic and therapeutic actions), keeping evidence of the experience and participating in preventive and medical actions under the supervision of veterinary doctors in agreement with the legislative provisions of the respective country.

Recommended literature:

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 152

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Martin Tomko, PhD.
Lecturer:
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: RRZaDS/GVM-EP 2/17	**Course name:** Extramural practice

Form, course-load and method of study:
Form of study: Practical
Recommended course-load (in hours):
Per week: Per study period: 80s
Method of study: present

Number of credits: 2

Recommended semester of the course study: 10.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
Completion of 80 hours under supervision of private veterinary doctors in Slovak Republic or abroad. The experience has to be completed by the end of respective academic year (i.e. no later than by August 31) and a written, signed and stamped confirmation has to be presented at the registration to the next year of study.

Learning outcomes of the course:

Brief outline of the course:
The aim of professional experience is to get acquainted with the organisation and practical work of private veterinary doctors. The students are practising in veterinary surgeries and clinics, performing veterinary duties (preventive, prophylactic and therapeutic actions), keeping evidence of the experience and participating in preventive and medical actions under the supervision of veterinary doctors in agreement with the legislative provisions of the respective country.

Recommended literature:

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 139

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Martin Tomko, PhD.
Lecturer:
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-V-EaVZZ/GVM-FaWlReh/16	**Course name:** Falconry and wild life rehabilitation

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 2

Recommended semester of the course study: 8.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-Phys 2/14 - Physiology and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:
1. BSAVA: Manual of Reptiles. BSAVA, Cheltenham, 1986
2. Sokolníctvi a dvavci v zajetí, Kumbera
3. Nick Fox, Birds of Prey

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 50

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Ladislav Molnár, PhD.
Lecturer: MVDr. Ladislav Molnár, PhD.MVDr. Peter Major, PhD.
Practical teacher: MVDr. Ladislav Molnár, PhD.MVDr. Peter Major, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaVDCHZv/GVM-FeedPla/13	**Course name:** Feed plant biology and toxic plants

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 5

Recommended semester of the course study: 2.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
1) Fulfilment of conditions for credit according to actual Organisation and study schedule guidelines of the UVMP in Košice, the subject is taught at the Department of Nutrition, Dietetics and Feeds: a) Participation at the lectures (75%), b) Active participation at the practical exercises - students may miss at maximum three exercises per semester, one may be omitted without compensation, the others must be substituted according to an agreement with the teacher, c) The activity at the exercises (knowledge about taught issues and proactive approach to practical exercises) is required, d) All typed protocols (original texts) of practical exercises at which the student attended during the semester will be passed, the handing of one protocol within 14 days period after completion of practical exercise in the required quality is evaluated (score maximum 10% / minimum 5%), e) Successfully completed two credit tests in the 6th and 11th week of semester (score of the each of them maximum 15% / minimum 8%); f) Successfull passing of the practical exam in 13th week of semester.
2) Final exam consist of written (score maximum 20% / minimum 10%) and oral part (score maximum 40% / minimum 20%). The results achieved by the student during the semester are projected into the final exam (score maximum 40% / minimum 20%).

Learning outcomes of the course:
Students are able to understand correct ways and measures of feedstuffs production and processing, their nutritional values and their use in practical feeding as well as they are able to understand the links in the system of circulation of biogenic elements in the food chain from the points of view of the environmental aspects, landscape ecology and feed safety of animals and plant origin after graduating of the subject Feed Plant Biology and Toxic Plants. The achieved information will serve as a source of knowledge in feed science serving as a background for animal nutrition and feeding.

Brief outline of the course:
Characteristics of the subject: Feed Plant Biology and Toxic Plants as a synthetic subject includes regulation and organization of processes of high-quality plant agricultural production. It provides correct orientation in the topic of fodder crops and feed industry with regard to high quality of feedstuffs. This subject is the essential part of a curriculum for obtaining basic knowledge in botany, feed production and processing.

Recommended literature:

1) MARCIN, A., NAĎ, P., BUJŇÁK, L.: Feed Plant Biology and Toxic Plants (General Veterinary Medicine). The University of Veterinary Medicine and Pharmacy in Košice, Department of Nutrition, Dietetics and Animal Husbandry, 2017, 273 pp., ISBN 978-80-8077-519-3
2) MARCIN, A., NAĎ, P.: Feed Plant Biology and Toxic Plants practical exercises. The University of Veterinary Medicine and Pharmacy in Košice, Department of Nutrition, Dietetics and Animal Husbandry, 2017, 82 pp., ISBN 978-80-8077-567-4
3) Lectures for the subject Feed Plant Biology and Toxic Plants;
4) HORROCKS, R.D., VALENTINE, J.F.: Harvested Forages. Academic Press, 1999. ISBN 10: 0-12-356255-4, ISBN 13: 978-0-12-356255-5;
5) Demeterová, M.: Plant Husbandry (Thesis of lectures and lessons). The University of Veterinary Medicine in Košice, Department of Animal Nutrition and Dietetics, 2000;

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 88

A	B	C	D	E	FX
12.5	35.23	31.82	18.18	2.27	0.0

Course teachers:
Guarantor of the course: MVDr. Andrej Marcin, CSc.
Lecturer: MVDr. Andrej Marcin, CSc.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaVDCHZv/GVM-FQCPrH 1/16	**Course name:** Feed quality control and production health of animals

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 6.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Anat II. 1/11 - Anatomy II. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-Phys 1/11 - Physiology and KaAHF/GVM-Phys 2/14 - Physiology and KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaVDCHZv/GVM-AnHus 1/14 - Animal husbandry and technology of animal production and KaVDCHZv/GVM-AnHus 2/14 - Animal husbandry and technology of animal production and KaVDCHZv/GVM-NutFeed 1/11 - Nutrition and feeding of animals

Conditions for completion of the course:
Fulfilment of conditions for credit according to actual Organisation and study schedule guidelines of the UVMP in Košice; the subject is taught at the Department of Nutrition, Dietetics and Animal Breeding:
1) Active participation at the practical exercises – students may miss at the maximum three practicals per semester, one may be omitted without compensation; the others must be substituted according to an agreement with the teacher.
2) All typed of protocols from practical exercises at which the student attended during the semester will be composed in written form. The handing of one protocol within 2 weeks after completion of practical exercise in the required quality.
3) Successfully completed credit test in the 7th week of semester.

Learning outcomes of the course:
After passing the semester, the student has to know
-the analytical methods of determining and assessing the nutritional, dietetic and health safety of the feed;
-the main effects of antinutritional substances, feed additives and their impact on animal health and production;
-the principles of processing, treatment and conservation of feed and their impact on the nutritional and dietary value of feed.

Brief outline of the course:
Characteristics of the subject: Feed quality control and production health of animals as a synthetic subject includes evaluation of the relationship: nutrition and feeding - fermentation - digestion - absorption - metabolism - production and reproduction, in relation to the physiological and reproductive phases.

Obtained information are used for understanding of pathogenesis of nutritional related disease. These information are later subsequently discussed in the clinical disciplines. Describing comprehensive system of analysis of respective nutritional and dietetic causes, suggests the way of formulation of dietetic preventive measures in order to avoid health disorders of animals and principles of feeding of ill animals, respectively.

Recommended literature:

Givens D.I., Owen E., Axford R.F.E. and Omed H.M.: Forage evaluation in ruminant nutrition,CABI Publishing, 2000, ISBN 13:978-0-85199-344-7, p.480.
Volden H.: NorFor- The Nordic feed evaluation system, EAAP Publication No.130, Wageningen Academic Publishers, The Netherlands 2011, ISBN 978-90-8686-162-0.
D´Mello J.P.F.: Farm animal metabolism and nutrition, CABI Publishing, P.438, ISBN 0-85199-378-8.
Saastamoinen MT., Martin-Rosset W.: Nutrition of the execising horse. EAAP publication No.125, Wagening Academic Publisher, The Netherlands, 2008, p432, ISBN978-90-8686-071-5.
Buffington T., Holloway CH., Abood S.: Manual of veterinary dietetics, p.252, 2004, Elsevier Saunders, ISBN 0-7216-123-5.
Crovetto Matteo G.: Energy and protein metabolism and nutrition. EAAP Publication No.127, Wagening Academic Publisher, The Netherlands, 2010, p736, ISBN 978-90-8686-153-8.
Lectures for the subject Feed quality control and production health of animals.

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 45

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Lukáš Bujňák, PhD.
Lecturer: MVDr. Lukáš Bujňák, PhD.MVDr. Iveta Maskaľová, PhD.
Practical teacher: MVDr. Lukáš Bujňák, PhD.MVDr. Iveta Maskaľová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaVDCHZv/GVM-FQCPrH 2/16	**Course name:** Feed quality control and production health of animals
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 2 **Per study period:** 26 / 26 **Method of study:** present	
Number of credits: 5	
Recommended semester of the course study: 7.	
Level of study: I.II.	
Prerequisites: KaVDCHZv/GVM-FQCPrH 1/16 - Feed quality control and production health of animals and KaVDCHZv/GVM-NutFeed 2/15 - Nutrition and feeding of animals and KaPAaPF/GVM-PaPhy 1/11 - Pathological physiology and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology	
Conditions for completion of the course: Fulfilment of conditions for credit according to actual Organisation and study schedule guidelines of the UVMP in Košice; the subject is taught at the Department of Nutrition, Dietetics and Animal Breeding: 1) Active participation at the practical exercises – students may miss at the maximum three practicals per semester, one may be omitted without compensation; the others must be substituted according to an agreement with the teacher. 2) All typed of protocols from practical exercises at which the student attended during the semester will be composed in written form. The handing of one protocol within 2 weeks after completion of practical exercise in the required quality. 3) Successfully completed credit test in the 7th week of semester. 4) Semestral work after practicals on farm: Biological control of the level of nutrition on the farm of dairy cows FINAL EXAM: Final exam consist of written part (test) and oral part (two questions).	
Learning outcomes of the course: After passing the semester, the student has to know: - analytical procedures and assessments of metabolic and nutrient transformation; - regulatory mechanisms for the adaptation of homeostatic and homeostatic regulation of metabolism; - nutritional factors and pathogenesis of nutritionally-related disorders of health, production, reproduction; - the principles of nutrition prevention of nutritionally-related disorders of health and production; - analytical procedures for evaluation and written processing of the biological control protocol for dairy cows.	
Brief outline of the course:	

Characteristics of the subject: Feed quality control and production health of animals as a synthetic subject includes evaluation of the relationship: nutrition and feeding - fermentation - digestion - absorption - metabolism - production and reproduction, in relation to the physiological and reproductive phases.
Obtained information are used for understanding of pathogenesis of nutritional related disease. These information are later subsequently discussed in the clinical disciplines. Describing comprehensive system of analysis of respective nutritional and dietetic causes, suggests the way of formulation of dietetic preventive measures in order to avoid health disorders of animals and principles of feeding of ill animals, respectively.

Recommended literature:

Givens D.I., Owen E., Axford R.F.E. and Omed H.M.: Forage evaluation in ruminant nutrition,CABI Publishing, 2000, ISBN 13:978-0-85199-344-7, p.480.
Volden H.: NorFor- The Nordic feed evaluation system, EAAP Publication No.130, Wageningen Academic Publishers, The Netherlands 2011, ISBN 978-90-8686-162-0.
D´Mello J.P.F.: Farm animal metabolism and nutrition, CABI Publishing, P.438, ISBN 0-85199-378-8.
Saastamoinen MT., Martin-Rosset W.: Nutrition of the execising horse. EAAP publication No.125, Wagening Academic Publisher, The Netherlands, 2008, p432, ISBN978-90-8686-071-5.
Buffington T., Holloway CH., Abood S.: Manual of veterinary dietetics, p.252, 2004, Elsevier Saunders, ISBN 0-7216-123-5.
Crovetto Matteo G.: Energy and protein metabolism and nutrition. EAAP Publication No.127, Wagening Academic Publisher, The Netherlands, 2010, p736, ISBN 978-90-8686-153-8.
Lectures for the subject Feed quality control and production health of animals.

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 113

A	B	C	D	E	FX
33.63	30.97	17.7	13.27	4.42	0.0

Course teachers:
Guarantor of the course: MVDr. Lukáš Bujňák, PhD.
Lecturer: MVDr. Lukáš Bujňák, PhD.MVDr. Iveta Maskaľová, PhD.
Practical teacher: MVDr. Lukáš Bujňák, PhD.MVDr. Iveta Maskaľová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaHTP/GVM-FBDis/17	**Course name:** Food borne diseases

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 9.

Level of study: I.II.

Prerequisites: KaHTP/GVM-FM/15 - Food microbiology and KaHTP/GVM-SSE-FHT I./16 - Food hygiene and technology I. (milk, milk products and their chemical analysis) and KaHTP/GVM-SSE-FHT II./16 - Food hygiene and technology II. (poultry, eggs and game meat and their chemical analysis) and KaMBaI/GVM-Im/16 - Immunology and KaFaT/GVM-Tox/16 - Toxicology and KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics and KaEaP/GVM-Epi 2/16 - Epizootology and KaEaP/GVM-Par 2/16 - Parasitology

Conditions for completion of the course:
Pregnant students may not attend this subject.
Both the non-graded credit and the final exam are requested for completion of this subject.
Requirements for the credit:
- a student is allowed to miss three practical lessons, out of these, one practical may be missed without compensation, for the remaining two practicals compensations are required,
- missing practicals shall be compensated by preparation of a seminar work according to instructions of the guarantor of the subject,
- each student shall prepare and present his/her semestral work, at least 21 points (out of 40) are required to gain a credit,
- the credit must be earned by 14th July of the current year.
A student has to earn the credit to be able to sit an exam. Final exam has a form of written test, for successful passing at least 31 out of 60 points are required.

Learning outcomes of the course:
Students will acquire general information about potential physical, chemical and biological hazards in the food chain able to endanger human health, as well as about official methods used in routine laboratory diagnostics to detect their presence in food and to interprete the findings in accordance with current food legislation.

Brief outline of the course:
Brief outline of the course:
- food intolerances and allergies,
- viral foodborne infections,
- bacterial foodborne infections,
- foodborne intoxications and mycotoxicoses,

- foodborne diseases resulted from the presence of veterinary drugs and contaminants in food,
- health risks associated with the consumption of poisonous fish and seafood toxins.

Recommended literature:

Adams, M.R., Moss, M.O., McClure, P.: Food Microbiology (4th ed.). The Royal Society of Chemistry, Cambridge, UK, 2016, 546 pp.
Commission Regulation (EC) No. 2073/2005 of 15 November 2005 on microbiological criteria for foodstuffs. Official Journal of the European Union L 338/1-26, 22.12.2005.
Commission Regulation (EC) No. 1441/2007 of 5 December 2007 amending Regulation (EC) No. 2073/2005 on microbiological criteria for foodstuffs. Official Journal of the European Union L 322/12-29, 07.12.2007.
Commission Regulation (EC) No. 2075/2005 of 5 December 2005 laying down specific rules on official controls for Trichinella in meat. Official Journal of the European Union L 338, 22.12.2005.
Council Directive 96/23/EC of 29 April 1996 on measures to monitor certain substances and residues thereof in live animals and animal products and repealing Directives 85/358/EEC and 86/469/EEC and Decisions 89/187/EEC and 91/664/EEC. Official Journal of the European Union L 125, 23.5.1996.
OIE (Office International des Epizooties): OIE-Listed diseases, infections and infestations.
Regulation (EC) No. 853/2004 of the European Parliament and of the Council of 29 April 2004 laying down specific hygiene rules for food of animal origin. (Official Journal of the European Union L 139/55-205, 30.4.2004).
Regulation (EC) No. 854/2004 of the European Parliament and of the Council of 29 April 2004 laying down specific rules for the organisation of official inspections on products of animal origin intended for human consumption. Official Journal of the European Union L 139, 30.4.2004.
Sing, A.: Zoonoses - Infections Affecting Humans and Animals: Focus on Public Health Aspects. Springer, 2015, 1143 pp.

Language of instruction:

English language and Latin terminology.

Notes:

Evaluation of the course

Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Course teachers:

Guarantor of the course: Doc. MVDr. Monika Pipová, CSc.
Lecturer: Doc. MVDr. Monika Pipová, CSc.Doc. MVDr. Eva Dudriková, PhD.Doc. MVDr. Ivona Kožárová, PhD.Doc. MVDr. Slavomír Marcinčák, PhD.Doc. MVDr. Peter Popelka, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaChBChBF/GVM-FCh/16	**Course name:** Food chemistry

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 4.

Level of study: I.II.

Prerequisites: KaChBChBF/GVM-Ch/16 - Chemistry

Conditions for completion of the course:
Request for Credit:
1. To pass all exercises (Attendance is MANDATORY).
2. To submit all lab reports.
3. To pass a credit test.
4. To present the seminar paper.

The final grade of exam consists of 4 parts:
1. practical exercises (reports, lab abilities) – max. 10%
2. credit test – max. 10%
3. seminar paper (the topic is specified in the 1st week of the semester and it is presented in form of 10-min lecture) - max. 10%
4. oral exam – max. 70%

No Fx of any part is necessary.

Learning outcomes of the course:

Brief outline of the course:
Lectures: Introduction to food chemistry. The amino acids, peptides and proteins in food: importance for nutrition, content in food, classification, physico-chemical properties. Changes of the proteins in food processing and storage. Protein hydrolysates. Allergenic properties of proteins. Specific proteins of different foodstuffs. Lipids: flavor reversion, autoxidation, secondary reactions of oxidized lipids, inhibition of autoxidative changes. Lipid-related substances. The importance of lipids for nutrition. Lipids of different foodstuffs. Carbohydrates: Chemical reactions of carbohydrates, changes involved in food processing. The occurrence of carbohydrates in food, importance for nutrition. Caramelization. The reactions of the non-enzymatic browning, Maillard reactions, Strecker degradation. Factors affecting non-enzymatic browning of foods. Inhibitors of non-enzymatic browning reactions. Water in food. Minerals, trace elements, toxic elements. Vitamins and changes in food processing. Antivitamins. Flavorings in foods. Alkaloids, plant phenols, tannins. Natural colors in food. Natural toxic chemicals in food. Intentional and incidental xenobiotics in food. Food additives. Antioxidants in food. The basic principles of the conservation treatments. Preservation by microbial fermentation – ethanol, lactic acid, propionic acid and acetic

acid fermentation. Enzymes in the food industry. Enzymatic browning of foods. Particularly important reactions in the food industry.
Practical exercises:
Laboratory safety rules. Sample collection, treatment, storage and processing. Food packaging materials. Proteins. Isolation and determination of proteins from different types of food (milk, eggs, legumes). Lipids. Observation of some fat reactions. Determination of some fat characteristics.
Carbohydrates. The differentiation of the carbohydrate according to specific functional group reactions. Reactions of carbohydrates suitable for determining their content in the foods.
Hydrolysis of sucrose and starch. Isolation of simple sugars from different food samples. Determination of reducing sugars in food by Bertrand. Determination of the calcium and magnesium concentration in the mineral waters by complexometry. Determination of the water hardness.
Determination of the salt content in food by Mohr´s method. Qualitative analysis of provitamin A (carotenoids) in carrots and tomatoes. Determination of the vitamin C concentration in instant drinks.
The lactic acid fermentation processes. Determination of lycopene in tomatoes and tomato products. Determination of anthocyanin dyes in plants. Presentation of seminar paper.

Recommended literature:
Literature:
1. J. Velíšek - The Chemistry of Food, Wiley Blackwell, 2014
2.H.-D. Belitz, W. Grosch, P. Schieberle - Food Chemistry, Springer, 2009

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 3

A	B	C	D	E	FX
0.0	0.0	0.0	100.0	0.0	0.0

Course teachers:
Guarantor of the course: Doc. Ing. Anna Sobeková, PhD.
Lecturer: Doc. Ing. Anna Sobeková, PhD.
Practical teacher: Doc. Ing. Anna Sobeková, PhD.RNDr. Zuzana Bujdošová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaHTP/GVM-SSE-FHT I./16	**Course name:** Food hygiene and technology I. (milk, milk products and their chemical analysis)
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 1 / 3 **Per study period:** 13 / 39 **Method of study:** present	
Number of credits: 5	
Recommended semester of the course study: 7.	
Level of study: I.II.	
Prerequisites: KaAHF/GVM-Phys 2/14 - Physiology and KaVDCHZv/GVM-NutFeed 2/15 - Nutrition and feeding of animals and KaMBaI/GVM-Mic 2/15 - Microbiology and KaŽPVLE/GVM-AnHyW/11 - Animal hygiene and welfare and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics and KaHTP/GVM-FM/15 - Food microbiology	
Conditions for completion of the course: Full active participation and discussion during laboratory practices and lectures. Acrediting practical lessons: notes and received results from practical laboratory testing of milk and milk products in written form from each laboratory testing.	
Learning outcomes of the course:	
Brief outline of the course: Milk hygiene and technology - principles. Milk composition and quality (physico-chemical parameters, microbiology). Payment for milk. Principles of manufacturing and hygiene in dairy industry. Sanitization, ecology. Good manufacturing practice. HACCP. Methods used for evaluation of quality of milk and milk products.	
Recommended literature: 1. Eva Dudriková: Practical excercises from hygiene and technology of milk and milk products. UVM in Košice, 2008. ISBN 978-80-8077-117-1. 2. Eva Dudriková: Food hygiene and technology I (milk). UVM in Košice, 2012. 3. Legislation. 4. Lectures and practical excercises.	
Language of instruction: English.	
Notes:	

Evaluation of the course
Total number of evaluated students: 47

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Doc. MVDr. Eva Dudriková, PhD.
Lecturer: Doc. MVDr. Eva Dudriková, PhD.Doc. RNDr. Mária Baranová, PhD.
Practical teacher: Doc. MVDr. Eva Dudriková, PhD.Doc. RNDr. Mária Baranová, PhD.RNDr. Zuzana Dičáková, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaHTP/GVM-SSE-FHT II./16	**Course name:** Food hygiene and technology II. (poultry, eggs and game meat and their chemical analysis)

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 3 **Per study period:** 13 / 39
Method of study: present

Number of credits: 5

Recommended semester of the course study: 8.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Phys 2/14 - Physiology and KaVDCHZv/GVM-NutFeed 2/15 - Nutrition and feeding of animals and KaMBaI/GVM-Mic 2/15 - Microbiology and KaŽPVLE/GVM-AnHyW/11 - Animal hygiene and welfare and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics and KaHTP/GVM-FM/15 - Food microbiology

Conditions for completion of the course:
Pregnant students may not attend this subject.
The credit is granted by the guarantor of the subject. Requirements for the credit:
-a student is allowed to miss three practical lessons, out of these, one practical may be missed without compensation, for the remaining two practicals compensations are required,
- missing practicals shall be compensated by preparation of a seminar work (Microsoft PowerPoint presentation for 15 minutes) according to instructions of the guarantor of the subject,
- credit test is written after the last lesson of the semester, at least 51 % is required to gain a credit, maximally two retakes are granted by the guarantor,
- should a student fail to write the credit test in the regular term, without having any health or other reason, his/her evaluation is "Fail FX",
- the credit must be earned by 14th July of the current year.

Learning outcomes of the course:
Students obtain basic knowledge in hygiene and technology of poultry processing, production of poultry meat products, eggs and egg products, fish and fishery products, game meat from wild and farm animals, and honey. They will be able to evaluate the quality of finished products and reveal any health risks for the consumer.

Brief outline of the course:
Brief outline of the subject:
- hygiene and technology of poultry processing and production of poultry meat products;
- evaluation of quality and defects of shell eggs, grading and aging of shell eggs;
- hygiene and technology of industrial egg processing;
- hygiene and technology of fresh- and sea-water fish processing and production of fishery products;
- evaluation of honey;
- processing of large and small wild game, farmed game and production of game meat;

- good manufacturing practice in poultry-, egg- and fish-processing industries in terms of food safety.

Recommended literature:

Pipová, M., Nagy, J., Popelka, P.: Hygiene and Technology of Food II (Poultry, Eggs, Fish, Game and Honey). UVLF v Košiciach, 2014, 250 pp.
Casey M. Owens, Christine Z. Alvarado, Alan R. Sams: Poultry meat processing. Second edition, CRC Press, 2010.
Regulation (EC) No 852/2004 of the European Parliament and the Council of 29 April 2004 on the hygiene of foodstuffs. Official Journal of the European Union, L 139/1, 30.4.2004, 54 pp.
Regulation (EC) No 853/2004 of the European Parliament and the Council of 29 April 2004 laying down specific hygiene rules for on the hygiene of foodstuffs. Official Journal of the European Union, L 139/1, 30.4.2004, 151 pp.
Regulation (EC) No 854/2004 of the European Parliament and the Council of 29 April 2004 laying down specific rules for the organisation of official controls on products of animal origin intended for human consumption. Official Journal of the European Union, L 155/206, 30.4.2004, 115 pp.

Language of instruction:
English language

Notes:

Evaluation of the course
Total number of evaluated students: 52

nezap	zap.
3.85	96.15

Course teachers:
Guarantor of the course: Doc. MVDr. Monika Pipová, CSc.
Lecturer: Doc. MVDr. Monika Pipová, CSc.Prof. MVDr. Jozef Nagy, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaHTP/GVM-SSE-FTIII.1/17	**Course name:** Food hygiene and technology III. (meat, meat products and their chemical analysis)

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 9.

Level of study: I.II.

Prerequisites: KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-Phys 2/14 - Physiology and KaVDCHZv/GVM-NutFeed 2/15 - Nutrition and feeding of animals and KaMBaI/GVM-Mic 2/15 - Microbiology and KaŽPVLE/GVM-AnHyW/11 - Animal hygiene and welfare and KaFaT/GVM-Tox/16 - Toxicology and K-P/GVM-Prop 2/16 - Propedeutics and KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaEaP/GVM-Epi 2/16 - Epizootology and KaHTP/GVM-SSE-FHT I./16 - Food hygiene and technology I. (milk, milk products and their chemical analysis) and KaŽPVLE/GVM-PubVetMed/16 - Public veterinary medicine and KaŽPVLE/GVM-ProEth/16 - Professional ethics and KaŽPVLE/GVM-AnE/16 - Animal ethology and KaBIOaGEN/GVM-Gen/16 - Genetics

Conditions for completion of the course:
Only healthy non-pregnant students may attend the practical lessons. Credit will be granted only if the presence at the lectures and practical lessons complied with the Organisation and Study Schedule Guidelines of the UVMP in Košice.

Learning outcomes of the course:
Ability to fulfil the duties of Official Veterinarian at meat production (as set by Regulation (EC) 0854/2004).

Brief outline of the course:
- Safety at work rules.
- Animal welfare at abattoir.
- Ante mortem health examination and decision about animal.
- Animal slaughter and dressing of carcasses.
- Post mortem examination and decision about meat.

Recommended literature:
- Handouts given at lectures.
- Regulation (EC) 0852/2004 - on the hygiene of foodstuffs.
- Regulation (EC) 0853/2004 - laying down specific hygiene rules for food of animal origin.
- Regulation (EC) 0854/2004 - laying down specific rules for the organisation of official controls on products of animal origin intended for human consumption.
- Regulation (EC) No 1099/2009 - on the protection of animals at the time of killing.

- Regulation (EC) 2075/2005 - laying down specific rules on official controls for Trichinella in meat.
- Regulation (EC) 999/2001 - rules for the prevention, control and eradication of certain transmissible spongiform encephalopathies.
- Regulation (EC) 2073/2005 - on microbiological criteria for foodstuffs.
- Regulation 142/2011 - health rules as regards animal by-products and derived products not intended for human consumption.
- Girard, J.P.: Technology of Meat and Meat Products, Ellis Horwood Ltd.
- Gracey, J.(F)., Collins, D.S.: Meat Hygiene (9e). Bailliére Tindall, London, 1991.

Language of instruction:
English

Notes:
Environment of slaughterhouse where practical lessons are taught is demanding specific protective clothes and tools.

Evaluation of the course
Total number of evaluated students: 131

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Doc. MVDr. Peter Popelka, PhD.
Lecturer: Doc. MVDr. Peter Popelka, PhD.Doc. MVDr. Slavomír Marcinčák, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaHTP/GVM-SSE-FTIII.2/17	**Course name:** Food hygiene and technology III. (meat, meat products and their chemical analysis)

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 3 **Per study period:** 26 / 39
Method of study: present

Number of credits: 0

Recommended semester of the course study: 10.

Level of study: I.II.

Prerequisites: KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaAHF/GVM-Anat I./11 - Anatomy I. and KaŽPVLE/GVM-PubVetMed/16 - Public veterinary medicine and KaŽPVLE/GVM-ProEth/16 - Professional ethics and KaBIOaGEN/GVM-Gen/16 - Genetics and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-Phys 2/14 - Physiology and KaVDCHZv/GVM-NutFeed 2/15 - Nutrition and feeding of animals and KaMBaI/GVM-Mic 2/15 - Microbiology and KaŽPVLE/GVM-AnHyW/11 - Animal hygiene and welfare and KaFaT/GVM-Tox/16 - Toxicology and KaŽPVLE/GVM-AnE/16 - Animal ethology and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and K-P/GVM-Prop 2/16 - Propedeutics and KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaEaP/GVM-Epi 2/16 - Epizootology and KaEaP/GVM-Par 2/16 - Parasitology and KaHTP/GVM-SSE-FHT I./16 - Food hygiene and technology I. (milk, milk products and their chemical analysis) and KaHTP/GVM-SSE-FHT II./16 - Food hygiene and technology II. (poultry, eggs and game meat and their chemical analysis)

Conditions for completion of the course:
Credit will be granted only if the presence at the lectures and practical lessons complied with the Organisation and Study Schedule Guidelines of the UVMP in Košice.

Learning outcomes of the course:
Ability to fulfil the duties of Official Veterinarian at meat production and processing, specifically to assess the GMP and HACCP at meat production and processing.

Brief outline of the course:
- Meat and meat constituents properties.
- Meat production and processing technologies and processing environments.
- Good manufacturing practices and HACCP at meat production and processing.
- Inspection and audit of GMP and HACCP.

Recommended literature:
- Handouts given at lectures.
- Regulation (EC) 0852/2004 - on the hygiene of foodstuffs.
- Regulation (EC) 0853/2004 - laying down specific hygiene rules for food of animal origin.
- Regulation (EC) 0854/2004 - laying down specific rules for the organisation of official controls on products of animal origin intended for human consumption.
- Regulation (EC) 2073/2005 - on microbiological criteria for foodstuffs.

- Regulation 142/2011 - health rules as regards animal by-products and derived products not intended for human consumption.
- Regulation (EC) 1881/2006 – setting maximum levels for certain contaminants in foodstuffs.
- EFSA Zoonoses Reports.
- Commision Decision 2006/677 - on audits.
- Girard, J.P.: Technology of Meat and Meat Products, Ellis Horwood Ltd.
- Gracey, J.(F)., Collins, D.S.: Meat Hygiene (9e). Bailliére Tindall, London, 1991.
- Gracey, J.(F)., Collins, D.S.: Meat Hygiene (9e). Bailliére Tindall, London, 1991.
- Bystrický, P., Dičáková, Z.: Handbook for Practical Lessons from Meat Hygiene and Technology. UVL Košice. 2008.
- Bystrický, P.: Meat Hygiene and Technology. UVL, Košice, 1997

Language of instruction:
English

Notes:
Potentially hazardous and hazardous substances will be used at practical lessons (under control of teacher and following safety at work rules).

Evaluation of the course
Total number of evaluated students: 24

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Doc. MVDr. Peter Popelka, PhD.
Lecturer: Doc. MVDr. Peter Popelka, PhD.Doc. MVDr. Slavomír Marcinčák, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaHTP/GVM-SSE-FInsp/17	**Course name:** Food inspection
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 0 / 2 **Per study period:** 0 / 26 **Method of study:** present	
Number of credits: 0	
Recommended semester of the course study: 10.	
Level of study: I.II.	
Prerequisites: KaHTP/GVM-SSE-FHT I./16 - Food hygiene and technology I. (milk, milk products and their chemical analysis) and KaHTP/GVM-SSE-FHT II./16 - Food hygiene and technology II. (poultry, eggs and game meat and their chemical analysis) and KaEaP/GVM-Epi 2/16 - Epizootology and KaEaP/GVM-Par 2/16 - Parasitology and KaHTP/GVM-FM/15 - Food microbiology and KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics	
Conditions for completion of the course: - 100 % presence during the practical lessons (compensation for lessons missed according to the study guidelines). - To write a summary of official control of food of animal origin in student's home country (individual work). - Successful completion of the final written test (at least 51 %).	
Learning outcomes of the course: Ability to enforce and apply acquired knowledge and procedures for performing official control of food and control systems throughout the whole food production chain, including import and export of food.	
Brief outline of the course: food law, animal health and animal welfare rules, food chain, intra-EU trade, import from third countries, organization of official controls, competent authorities, control activities, methods and techniques, control plans, financing of controls, decisions following the controls, Rapid alert system for food and feed (RASFF), documentation	
Recommended literature: - EU legislation for official controls on food of animal origin (available on the website of the Official Journal of the European Union (http://eur-lex.europa.eu/homepage.html). - Study materials (lecture and lesson notes) are available online on the university website (Share Center).	
Language of instruction: EN.	
Notes:	

Evaluation of the course
Total number of evaluated students: 24

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Doc. MVDr. Ivona Kožárová, PhD.
Lecturer:
Practical teacher: Doc. MVDr. Ivona Kožárová, PhD.Doc. MVDr. Peter Popelka, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaHTP/GVM-FM/15	**Course name:** Food microbiology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 6.

Level of study: I.II.

Prerequisites: KaChBChBF/GVM-Ch/16 - Chemistry and KaVVP/GVM-LT/16 - Latin terminology and KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaBIOaGEN/GVM-Gen/16 - Genetics and KaMBaI/GVM-Mic 1/11 - Microbiology

Conditions for completion of the course:
Pregnant students may not attend this subject.
Both the non-graded credit and the final exam are requested for completion of this subject.
Requirements for the credit:
- a student is allowed to miss three practical lessons, out of these, one practical may be missed without compensation, for the remaining two practicals compensations are required,
- missing practicals shall be compensated by studying the missed topic and subsequent oral examination by the guarantor of the subject,
- credit test is written after the last lesson of the semester, at least 51 % is required to gain a credit, maximally two retakes are granted by the guarantor,
- should a student fail to write the credit test in the regular term, without having any health or other reason, his/her evaluation is "Fail FX".
The requirement for successful passing of the credit test is to obtain at least 11 points out of 20.
A student has to earn the credit to be able to sit an exam. The credit must be earned by 14th July of the current year.

Learning outcomes of the course:
Students will be able to perform a routine microbiological examination, to interpret results in accordance with European Standards for microbiology of food and animal feeding stuffs as well as current food legislation, and to suggest appropriate measures to ensure microbial food safety.

Brief outline of the course:
Sampling, transportation and prepartion of test samples for microbiological examination.
Culture media used for microbiological examination of food and animal feeding stuffs - composition, mode of action and classification.
Qualitative microbiological examination: Detection of food-borne pathogens.
Quantitative microbiological examination: Enumeration of potentially pathogenic and toxigenic micro-organisms in food.

Detection and enumeration of culture micro-organisms used in the production of fermented food products.
Detection of microbial toxins in food samples.
Detection of residues of inhibitory substances in food.
Testing of microbial resistance to antibiotics.
The use of PCR for the detection of food-borne pathogens.
Results of microbiological examination of food and animal feeding stuffs and their interpretation in accordance with current food legislation.

Recommended literature:

Adams, M.R., Moss, M.O., McClure, P.: Food Microbiology (4th ed.). The Royal Society of Chemistry, Cambridge, UK, 2016, 546 pp.
Commission Regulation (EC) No. 2073/2005 of 15 November 2005 on microbiological criteria for foodstuffs. Official Journal of the European Union L 338/1-26, 22.12.2005.
Commission Regulation (EC) No. 1441/2007 of 5 December 2007 amending Regulation (EC) No. 2073/2005 on microbiological criteria for foodstuffs. Official Journal of the European Union L 322/12-29, 07.12.2007.
EN ISO standards: Microbiology of food and animal feeding stuffs.

Language of instruction:
English language and Latin terminology

Notes:

Evaluation of the course
Total number of evaluated students: 50

A	B	C	D	E	FX
16.0	22.0	18.0	14.0	28.0	2.0

Course teachers:
Guarantor of the course: Doc. MVDr. Monika Pipová, CSc.
Lecturer: Doc. MVDr. Monika Pipová, CSc.
Practical teacher: MVDr. Ivana Regecová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-MZ/BSc-GeSAn 2/16	**Course name:** General surgery and anaestesiology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 4

Recommended semester of the course study: 8.

Level of study: I.II.

Prerequisites: KaAHF/BSc-Anat I./11 - Anatomy I. and KaAHF/BSc-Anat II. 1/11 - Anatomy II. and KaAHF/BSc-HisEmb 2/16 - Histology and embryology and KaAHF/BSc-Phys 2/16 - Physiology

Conditions for completion of the course:
Obligatory lectures: 9
Practical lesson: 2 missing – 1 without compensation

Learning outcomes of the course:
After finishing subject General surgery and aneasthesiology in winter and summer semester the students should have basic knowledge focused on : Surgical facilities design, Assessment and preparation of the surgical patient, Fluid therapy, Basic surgical procedures, wound healing and complications, Bandaging, Fractures, Anaesthesia in dogs, cats, monitoring of anesthesia, anaesthetic complications, anesthesia in diseased animals, basic informations about anaesthesia in horses, ruminants and pets

Brief outline of the course:
GENERAL SURGERY AND ANESTHESIOLOGY: 2/2
LECTURES winter semester
1. Introduction to the veterinary surgery
Surgical facilities design
Clearing of surgical facilities
Sterilization and disinfection, asepsis
Preparation of operating site, and surgical team
2. Assessment and preparation of the surgical patient
Surgical instruments
Injections, infusions, and transfusions
3. Fluid therapy
Fluid types and uses
Perioperative fluid therapy
4. Basic surgical procedures
Incision
Excision

Tissue preparation
Suture materials
5. Specification of the suture materials
Suture handling
Suture selection for different tissue type
Skin staplers
6. Healing of elective surgical wounds/ part I.
Phases of wound healing
Factors affecting surgical wound healing
Complications of surgical wound healing
Technique to avoid complications in surgical wound healing
7. Healing of elective surgical wounds/ part II.
Surgical drains
Axial patterns flaps, free skin grafting
8. Shock, sepsis and SIRS
Overview and pathophysiology
Clinical recognition of shock, sepsis and SIRS
9. Surgical wound infection and antimicrobial prophylaxis
Wound infection
Antimicrobial drugs
Approach to antimicrobial prophylaxis
Therapeutic use of antimicrobial agents in the surgical patient
10. Haemosthasis and blood component therapy
Stages of haemosthasis
Pathophysiology of altered haemosthasis
Assessment of haemosthasis in the surgical patient
Blood component therapy
11. Bandaging and bandaging materials
Covering, fixating, and correcting bandages
Bandages on different body regions
12. Fractures
Definition
Classification
Symptoms
Principles of treatment
13. Introduction to the veterinary oncology
Diagnosis of tumor type
Diagnostic staging
Therapeutic modalities: chemotherapy and immunotherapy
Radiation therapy
Surgery
PRACTICAL LESSONS WINTER SEMESTER (2 hours)
1. Sterilization and disinfection of instruments, surgical material. Care of instruments. Scrubbing, gowning and gloving.
Surgical site preparation.
2. Injection i.v, i.m, s.c. (cadaver)
IV Cannulation.
Infusions, infusion pump.
3. Manipulation with instruments. Skin suture (maquete)

4. Hollow organs suture (maquete)
5. Vessels and tendons suture (maquete)
6. Basic surgical suture techniques (cadaver)
7. Wound treatment. Drainages (cadaver)
8. Reconstructive skin surgery (cadaver)
9. Surgical methods of securing enteral nourishment- nasogastric, esophagostomy, pharyngostomy, gastrostomy tubes.
Surgical methods for securing patency of airways- temporary tracheostomy (cadaver)
10. Thorakocentesis, percutaneous drenage, cystocentesis, urinary blader catetrisation. (cadaver)
11. Bandages- covering bandages on different parts of body.
12. Bandages- flexion and fixation
13. Physiotherapy and rehabilitation
LECTURES summer semester (1 hours)
1. Pre – anaesthetic assessment, postoperative care: general principles
2. The anaesthetic machine and vaporizers, breathing system and equipment, automatic ventilation
3. Patient monitoring and monitoring equipment
4. Pain management, premedication and sedation
5. Intravenous anaesthetics, inhalant anaesthetics, muscle relaxants
6. Anesthesia in horses, ruminants, swine's, rats and rabbits
7. Anaesthesia for patients with ophthalmic and oral diseases
8. Anaesthesia for patient with cardiovascular and respiratory diseases
9. Anaesthesia for patients with gastrointestinal and urogenital diseases
10. Anaesthesia for patients with endocrine diseases, anaesthasia for cesarean section
11. Anaesthesia for patients with neurological diseases
12. Anaesthesia for pediatric and geriatric patients
13. Anaesthetic complications, accidents and emergencies
PRACTICAL LESSONS SUMMER SEMESTER (2 hours)
1. Introduction to the anesthesia
Pre-anesthetic assessment of patient
Anesthesia equipment
Intubation (cadaver)
2. Local anesthesia in dogs and cats.
3. Local anesthesia in ruminants.
4. Local anesthesia in horses.
5. – 13. General anesthesia in small animals (clinical internship)
Pre-anesthetic assessment
Premedication and sedation
Intubation
Infusion therapy
Intravenous anesthesia
Inhalation anesthesia
Pain management
Emergency and critical care
Complications during anesthesia
Postoperative care

Recommended literature:
Literature:
1. BSAVA manual: Canine and Feline Surgical principles; S. Baines, V. Lipscomb, T. Hutchinson; 2012;

2. BSAVA Manual of Canine and feline wound management and reconstruction/second edition: John Williams and Alison Moores, 2012
3. BSAVA Manual of Canine and Feline Emergency and Critical care/second edition: L.G. King, Amanda Boag 2007
4. BSAVA Manual of Canine and Feline Anaesthesia and Analgesia/second edition: Ch. Seymur, T.Duke - Nowakovski; 2015
5. Veterinary surgery small animal; K.M. Tobias, S.A. Johnston (Elsevier Saunders, 2012)
Other: Textbook of small animal surgery, Slatter ((Elsevier Saunders, 2000)

Language of instruction:
english language

Notes:

Evaluation of the course
Total number of evaluated students: 181

A	B	C	D	E	FX
29.28	37.02	17.13	5.52	8.84	2.21

Course teachers:
Guarantor of the course: Prof. MVDr. Alexandra Trbolová, PhD.
Lecturer: Prof. MVDr. Alexandra Trbolová, PhD.
Practical teacher: MVDr. Martin Kožár, PhD.MVDr. Alexandra Valenčáková, PhD.MVDr. Agnieszka Aleksandra Balicka, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-MZ/GVM-GeSAn 1/11	**Course name:** General surgery and anesthesiology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 7.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:
Essentials of Small Animal Anesthesia and Analgesia]
John C. Thurmon, William J. Tranquilli, G. John Benson
Handbook of Veterinary Anaesthesia
William W. Muir et al. 2007

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 121

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Doc. MVDr. Igor Capík, PhD.
Lecturer: Doc. MVDr. Igor Capík, PhD.Prof. MVDr. Alexandra Trbolová, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-MZ/GVM-GeSAn 2/16	**Course name:** General surgery and anesthesiology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 4

Recommended semester of the course study: 8.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:
In the summer semester subject involves basic surgical performans, wound management, emergency treatment in surgical patients, bandaging techniques.

Recommended literature:
Slater, D.:Textbook of Small Animal Surgery, Saunders, 3rd ed .2003

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 136

A	B	C	D	E	FX
6.62	30.15	29.41	14.71	18.38	0.74

Course teachers:
Guarantor of the course: Doc. MVDr. Igor Capík, PhD.
Lecturer: Doc. MVDr. Igor Capík, PhD.Prof. MVDr. Alexandra Trbolová, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaBIOaGEN/GVM-Gen/16	**Course name:** Genetics

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 5

Recommended semester of the course study: 3.

Level of study: I.II.

Prerequisites: KaBIOaGEN/GVM-Biol/16 - Biology and KaChBChBF/GVM-BiCh 1/11 - Biochemistry and KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-HisEmb 1/11 - Histology and embyology and KaAHF/GVM-HisEmb 2/13 - Histology and embryology

Conditions for completion of the course:
Students are obliged
to absolve majority of lectures (80%) and practical lessons; to compensate missed practicals (according to rules of the Study Guide) providing knowledge of practiced topics; to pass the1st written test (51% of correct answers) and a final test (51% of correct answers); to be successfull in a final oral exam (min. 51%).

Learning outcomes of the course:
The subject focuses on the study of essential genetic principles in the field of general genetics (Mendelian genetics, immunogenetics, population genetics) and molecular genetics. It is an introduction to veterinary genetics and focuses on necessary knowledge about animal genetic diseases. Students will be able to analyse genetic problems, to formulate principles/conclusions as well as to determine the type of disease inheritance and to evaluate the genetic risk for progeny/ population. Students will also be familiar with the application of molecular biology in veterinary medicine.

Brief outline of the course:
Subject consists of the following parts: Mendel´s laws and their application. Punnet square. Calculation of genotype and phenotype cleavage ratios. Gene interactions (pleiotrophy, recessive epistasis). Complete and incomplete gene linkage. Calculation of gene linkage power and application in veterinary medicine. Genetics of sex. Sex chromosome characteristics. sex linked traits, anomalies in sexual determination Immunogenetics. Blood groups and animal blood typing in veterinary medicine Population genetics of qualitative and quantitative traits. Calculation of genetic risk for population and individuum. Epigenetic mechanisms in relation to changes in gene expression. Recombinant DNA technologies. Perspectives and application of molecular genetics in veterinary medicine. Review of the most important anmial genetic diseases. The course contents 26 hrs of lectures and 26 hrs of practicals.

Recommended literature:

LIST OF COMPULSORY TITLES 1. Šiviková, K., Dianovský, J., Holečková, B: Introduction to Veterinary Genetics. UVMP Košice, 2017 2. Nicholas, F. W.: Introduction to Veterinary Genetics. Wiley-Blackwell, 2010 LIST OF PROPOSED TITLES Luptáková, L., Tomko, M., Valenčáková, A., Špalková, M.: Biology for Veterinary Medicine, 2018 Jorde, L. B., Carey, J. C., Bamshad, B. J.: Medical Genetics. 5th Ed., Elsevier, 2016 Nicholas, F. W.: Veterinary Genetics, Oxford, 1987

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 68

A	B	C	D	E	FX
16.18	13.24	32.35	22.06	14.71	1.47

Course teachers:
Guarantor of the course: Doc. RNDr. Beáta Holečková, PhD.
Lecturer: Doc. RNDr. Beáta Holečková, PhD.MVDr. Viera Schwarzbacherová, PhD.
Practical teacher: Doc. RNDr. Beáta Holečková, PhD.MVDr. Viera Schwarzbacherová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-P/HHMan/18	**Course name:** Herd health management

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 11.

Level of study: I.II.

Prerequisites: (K-P/GVM-Prop 2/16 - Propedeutics and K-K/GVM-ObReRD/16 - Obstetrics, reproduction and reproduction disorders and KaEaP/GVM-Par 2/16 - Parasitology and KaEaP/GVM-Epi 2/16 - Epizootology) or ((K-P/BSc-Prop 2/16 - Propedeutics or K-P/BSc-JSP-Prop 2/16 - Propedeutics) and (KaEaP/BSc-Par 2/16 - Parasitology or KaEaP/BSc-JSP-Par 2/16 - Parasitology) and K-K/BSc-ObReRD/17 - Obstetrics, reproduction and reproduction disorders and KaEaP/BSc-Epi 2/17 - Epizootology)

Conditions for completion of the course:
credit, exam

Learning outcomes of the course:

Brief outline of the course:
1. Aim of the herd health management
2. Management of reproduction, nutrition, udder health, and claw health
3. Biosecurity

Recommended literature:

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 71

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM
Lecturer:
Practical teacher: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaAHF/GVM-HisEmb 2/13	**Course name:** Histology and embryology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 3 **Per study period:** 26 / 39
Method of study: present

Number of credits: 12

Recommended semester of the course study: 2.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:
Histology is the study of microscopic anatomy dealing with the structures of cells, tissues and organs in relation to their function. Lecture presentations include numerous slides of light and electron microscopic images. The practical lessons directly correlate with the lectures. Students work with light microscopes, slides and learn how to "read images". The knowledge of structure of healthy tissues and organs helps students later in pathology to indentify different pathological changes.
In the spring semester (SS) the lectures and practical lessons present details following systems: digestive, respiratory, urinary, male and female reproductive systems, skin and sensory organs with emphasis on the relationship between structure and function. This semester involve embryology, dealing with development of mammals and aves tissues and organs.

Recommended literature:
1. Dellmans: Textbook of Veterinary Histology. 6th edition, 2006
2. Almasiova V., Holovska K.: Histological methods. UVM Košice, 2009
3. Almasiova V., Holovska K.: Practical manual of veterinary histology and embryology. UVMF Kosice,
2016

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 88

A	B	C	D	E	FX
25.0	13.64	18.18	18.18	21.59	3.41

Course teachers:
Guarantor of the course: Doc. MVDr. Katarína Holovská, PhD.

Lecturer: Doc. MVDr. Katarína Holovská, PhD.Doc. MVDr. Viera Almášiová, PhD. Practical teacher:
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaAHF/GVM-HisEmb 1/11	**Course name:** Histology and embyology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 3 **Per study period:** 26 / 39
Method of study: present

Number of credits: 0

Recommended semester of the course study: 1.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
Students have to pass three credit tests. Minimum 51 % is required from each test.

Learning outcomes of the course:

Brief outline of the course:
Histology is the study of microscopic anatomy dealing with the structures of cells, tissues and organs in relation to their function. Lecture presentations include numerous slides of light and electron microscopic images. The practical lessons directly correlate with the lectures. Students work with light microscopes, slides and learn how to “read images”. The knowledge of structure of healthy tissues and organs helps students later in pathology to indentify different pathological changes.
In the winter semester (WS) the lectures and practical lessons present details of four basic tissues: the epithelium, connective tissues (including blood, bone and cartilage), muscle and nerve tissue. In the same semester also cardiovascular, lymphatic, endocrine and nervous systems are thought.

Recommended literature:
Almasiova V., Holovska K.: Histology II. UVMP Kosice 2019
Dellmans: Textbook of Veterinary Histology. 6th edition, 2006;
Almasiova V., Holovská K.: Histological methods. UVM Košice 2009;
Almasiova V., Holovska K.: Practical manual of veterinary histology and embryology. UVMF Kosice 2016

Language of instruction:
EN

Notes:

Evaluation of the course
Total number of evaluated students: 132

nezap	zap.
3.03	96.97

Course teachers:

Guarantor of the course: Doc. MVDr. Katarína Holovská, PhD.
Lecturer: Doc. MVDr. Katarína Holovská, PhD.Doc. MVDr. Viera Almášiová, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaŽPVLE/GVM-HisVMed/16	**Course name:** History of veterinary medicine

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 1.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
Graduation in the sense of the Study Guidelines of the UVMP in Košice (article No.6 and 13-16). The student is obliged to present his own individual works in time.

Learning outcomes of the course:
Student is familiar with the history of veterinary medicine as different developmental stages, understand the role of veterinary medicine in society as well as position of veterinary medicine between the life sciences with particular emphasis on their connection to medicine and agriculture,

Brief outline of the course:
Foundation of Veterinary historiography, The era of intuitive, naive-empiric and superstitious-magic animal healing, The era of rational–empiric animal healing, Metaphysical era of veterinary medicine, Renaissance in medical science, Veterinary Medicine in the New Age.

Recommended literature:
1) Dunlop, R. H., Williams ,D.J.: Veterinary medicine, 1996, ISBN-13: 978-0801632099 ISBN-10: 0801632099
2) Wilkinson, L: Animals and Disease: An Introduction to the History of Comparative Medicine , 2005, Cambridge University Press, ISBN-13: 978-0521018449
3) Karasszon, D.: A Concise History of Veterinary Medicine, 1988, Akadémiai Kiadó,

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 43

A	B	C	D	E	FX
41.86	41.86	11.63	4.65	0.0	0.0

Course teachers:
Guarantor of the course: MVDr. Ing. Jana Korimová, PhD.

Lecturer: Practical teacher: MVDr. Ing. Jana Korimová, PhD.
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-MZ/HomeoSA/18	**Course name:** Homeopathy in small animals

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 3 **Per study period:** 0 / 39
Method of study: present

Number of credits: 2

Recommended semester of the course study: 11.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:
Dr. Maria Noelle Issautier, Dr. Henry Calvet — Veterinární homeopatická terapie
Dr. J T. Kent - Materia Medica Homeopatica
Dr. J T. Kent - Repetitorium k Materia Medica Homeopatica
Dr. G. Macleod - The dog: Homeopatic Remedies
Dr. G. Macleod – The cat: Homeopathic Remedies

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 0

nezap	zap.
0.0	0.0

Course teachers:
Guarantor of the course: Doc. MVDr. Mária Fialkovičová, PhD.
Lecturer:
Practical teacher: Doc. MVDr. Mária Fialkovičová, PhD.MVDr. Jana Gálová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaMBaI/GVM-Im/16	**Course name:** Immunology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 6.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 1/11 - Anatomy II. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaBIOaGEN/GVM-Biol/16 - Biology and KaChBChBF/GVM-BiCh 1/11 - Biochemistry and KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaAHF/GVM-HisEmb 1/11 - Histology and embyology and KaAHF/GVM-HisEmb 2/13 - Histology and embryology and KaBIOaGEN/GVM-Gen/16 - Genetics and KaAHF/GVM-Phys 1/11 - Physiology and KaAHF/GVM-Phys 2/14 - Physiology and KaMBaI/GVM-Mic 1/11 - Microbiology and KaVDCHZv/GVM-NutFeed 1/11 - Nutrition and feeding of animals and KaChBChBF/GVM-Ch/16 - Chemistry

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:
The animal body excludes invaders that may cause disease or reduce its ability to survive. The protection of the body comes from a complex system of overlapping and interlinked defense mechanisms that together can destroy or control almost all invaders (physical barriers, innate immunity, and specific immunity).

Recommended literature:
Tizard I.R.: Veterinary immunology. 9th Edition, 2013 (or 8th Edition, 2008)
Day M.J., Schultz R.D.: Veterinary immunology. Principles and practice, 2012
Tkáčiková L.: Immunology - Laboratory techniques. 2009.

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 48

A	B	C	D	E	FX
4.17	8.33	27.08	47.92	10.42	2.08

Course teachers:
Guarantor of the course: Prof. MVDr. Ľudmila Tkáčiková, PhD.

Lecturer: Prof. MVDr. Ľudmila Tkáčiková, PhD. Practical teacher:
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaEaP/SSE-InPDSA/18	**Course name:** Infectious and parasitic diseases of small animals

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 11.

Level of study: I.II.

Prerequisites: (KaEaP/GVM-Epi 2/16 - Epizootology and KaEaP/GVM-Par 2/16 - Parasitology and KaEaP/GVM-PreVetM/17 - Preventive veterinary medicine) or (KaEaP/BSc-Epi 2/17 - Epizootology and (KaEaP/BSc-Par 2/16 - Parasitology or KaEaP/BSc-JSP-Par 2/16 - Parasitology) and KaEaP/BSc-PreVetM/17 - Preventive veterinary medicine)

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 244

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Dr. h. c. Prof. MVDr. Jana Mojžišová, PhD.
Lecturer: Dr. h. c. Prof. MVDr. Jana Mojžišová, PhD.MVDr. Boris Vojtek, PhD.MVDr. Peter Smrčo, PhD.MVDr. Gabriela Štrkolcová, PhD.MVDr. Miloš Halán, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-MZ/GVM-SSE-IDSA 1/17	**Course name:** Internal diseases of small animals

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 9.

Level of study: I.II.

Prerequisites: KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics and K-P/GVM-Prop 2/16 - Propedeutics

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 126

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Tatiana Weissová, PhD.
Lecturer: MVDr. Tatiana Weissová, PhD.Doc. MVDr. Mária Fialkovičová, PhD.MVDr. Aladár Maďari, PhD.MVDr. Jana Gálová, PhD.
Practical teacher: MVDr. Tatiana Weissová, PhD.Doc. MVDr. Mária Fialkovičová, PhD.MVDr. Aladár Maďari, PhD.MVDr. Jana Gálová, PhD.MVDr. Martina Karasová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-MZ/GVM-SSE-IDSA 2/17	**Course name:** Internal diseases of small animals
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 2 **Per study period:** 26 / 26 **Method of study:** present	
Number of credits: 4	
Recommended semester of the course study: 10.	
Level of study: I.II.	
Prerequisites: KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaFaT/GVM-PhrmPhTh 2/16 - Pharmacology, pharmacy and therapeutics and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and KaEaP/GVM-Par 2/16 - Parasitology and K-P/GVM-Prop 2/16 - Propedeutics	
Conditions for completion of the course:	
Learning outcomes of the course:	
Brief outline of the course: Neurology I. – Diseases of brain, meningi, vestibular syndrome, encephalitis, Protocol for neurological case focusing on mentation, cranial nerves evaluation postural reflexes Neurology II. - Diseases of spinal cord, peripheral nerves Protocol for neurological examination, segmental reflexes, dif. dg. syncopy versus epileptiform seizures. Epilepsy. Acute cases in neurology. Cardiology I. Congenital diseases, Myocardial diseases in dog and cat, Pericardial diseases, Heart worm disease Protocol for suspected cardio case anamnestic data, clinical examination (heart auscultation) Cardio II. Congestive heart failure, pathophysiology, symptomatology, Valvular diseases Electrocardiography trace sampling and evaluation, individual evaluation of ECG from database Cardio III. Arrhythmias – diagnosis and therapy, short and long term management of the patient with CHF. Critical care, common medical emergencies (hypoglycemia, hypocalcemia, brain edema, shock lungs, cardiovascular collapse) Oncology – introduction, common neoplasm in small animal practice FNA technique, sample handling and evaluation, chemotherapeutic protocol, long term management of onco pacient Upper respiratory tract diseases. Clinical examination focusing on upper and lower respiratory tract diseases, Diagnostic work up of common clinical symptoms – cough, sneezing, nasal discharge Lower respiratory tract diseases. Nasal endoscopy, laryngoscopy, thoracocentesis for pleural effusion, tracheobronchoscopy, BAL, TTA, therapeutical plan and long term management of COPD Disorders of electrolyte balance, Diabetes insipidus, Hyperadrenocorticism, Hypoadrenocorticism, Phaeochromocytoma, Systemic hypertension Low dose and high dose dexamethasone tests, ACTH stimulation test, water deprivation test, long term management of Cushing and Adison cases, sampling and analysis acid-base balance results	

Diseases of thyroid gland – (hypothyroidism, hyperthyroidism) and parathyroid gland
Tests for thyroid function, pitfalls, demonstration of cases tips for differentiation euthyroid and hypothyroid cases
Diabetes mellitus, Insulinoma, Acromegaly
Glucose curve, diagnosis and management of diabetic dog and diabetic cat, nonresponsive DM diagnostic and therapeutical plan
Common intoxications in small animal practice
Diagnostic approach to intoxicated animals.

Recommended literature:

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 89

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Tatiana Weissová, PhD.
Lecturer: MVDr. Tatiana Weissová, PhD.Doc. MVDr. Mária Fialkovičová, PhD.MVDr. Aladár Maďari, PhD.MVDr. Jana Gálová, PhD.
Practical teacher: MVDr. Tatiana Weissová, PhD.Doc. MVDr. Mária Fialkovičová, PhD.MVDr. Aladár Maďari, PhD.MVDr. Jana Gálová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaBIOaGEN/GVM-LabD/16	**Course name:** Laboratory diagnostics

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 3 **Per study period:** 0 / 39
Method of study: present

Number of credits: 2

Recommended semester of the course study: 6.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
Continuous assessment (e.g. written test, individual work...): written test covering the subject matter of practicals. It is necessary to gain min 51% - A 91%; B 81%; C 71%; D 61%; E 51% Request for credit: it is necessary to pass the credit written test. Final assessment (e.g. exam, thesis...): Written examination of knowledge and skills within the curriculum of the subject. Number of credits 2 - within a rating scale A - E.

Learning outcomes of the course:
Laboratory diagnosis in veterinary practice in primary diagnostics is intended to enable them to conduct "minimum program", since all the important parameters can be investigated using rapid test. In the form of a "minimum program" can be performed blood tests, urine, feces, and skin exudates.

Brief outline of the course:
Brief outline of the course: 1. Organization of practical courses, Introduction to Laboratory diagnostics (MVDr. Lenka Luptáková, PhD.) 2. Ethics guide - Experimenting on animals; Proposed EU directive; Guidelines for Ethical Conduct in the Care and Use of Nonhuman Animals in Research (MVDr. Zuzana Hurníková, PhD.) 3. Cell Culture as in vitro biological models – part I (MVDr. Lenka Luptáková, PhD.) 4. Cell Culture as in vitro biological models – part II (MVDr. Lenka Luptáková, PhD.) 5. Alternative biotesting using invertebrates – Artemia franciscana (part I; MVDr. Michaela Špalková, PhD.) 6. Alternative biotesting using invertebrates – Artemia franciscana (part II; MVDr. Michaela Špalková, PhD.) 7. Caenorhabditis elegans – model organism (MVDr. Lenka Luptáková, PhD.) 8. Bird embryo as alternative animal model for experiments (doc. MVDr. Eva Petrovová, PhD.) 9. Risk assessment of chemicals in aquatic organisms ((MVDr. R. Sabo, PhD.) 10. Risk assessment of chemicals in bees (MVDr. R. Sabo, PhD.) 11. Molecular diagnostics and genomics of pathogenic microorganisms (bacteria and viruses; MVDr. Janka Koščová, PhD.) 12. Using of flow cytometer in immunology (MVDr. Dagmar Mudroňová. PhD.) 13. Credit test and credit

Recommended literature:

Kraft, W., Durr, U. M.: Klinická laboratórna diagnostika vo veterinárnej medicíne. H&H, Bratislava 2001 Kokinčáková, T., Bálent, P., Hrebenár, S.: Laboratórne metódy v biológii. USVZ, Prešov 2011

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: Doc. MVDr. Lenka Luptáková, PhD.
Lecturer:
Practical teacher: Doc. MVDr. Lenka Luptáková, PhD.MVDr. Michaela Špalková, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaVVP/GVM-LT/16	**Course name:** Latin terminology
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 0 / 2 **Per study period:** 0 / 26 **Method of study:** present	
Number of credits: 2	
Recommended semester of the course study: 1.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course: Activ pressens in practicals Credit test Final exam	
Learning outcomes of the course: Learning outcome of the subject Latin Terminology is to command the basic Latin terminology which is a prerequisite for mastering other medical disciplines. The result is obtaining skills to use the medical Latin terminology correctly.	
Brief outline of the course: 1. Latin Pronunciation. Structure of multi- word terms 2. 1st - 5th Latin declension 3. 1st - 3rd Greeck declension 4. Adjectives of 3rd declension 5. Comparison of adjectives 6. Latin and Greek prefixes 7. Latin and Greek sufixes 8. Compound words	
Recommended literature: Valeria Bartková: Latin for students of the UVMPh Košice, 2012	
Language of instruction: 0	
Notes: 0	

Evaluation of the course
Total number of evaluated students: 87

A	B	C	D	E	FX
14.94	13.79	17.24	26.44	25.29	2.3

Course teachers:
Guarantor of the course: PhDr. Valéria Bartková
Lecturer:
Practical teacher: PhDr. Valéria BartkováMgr. Martin Zborovjan, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaMBaI/GVM-Mic 1/11	**Course name:** Microbiology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 4.

Level of study: I.II.

Prerequisites: KaBIOaGEN/GVM-Biol/16 - Biology and KaChBChBF/GVM-Ch/16 - Chemistry and KaChBChBF/GVM-BiPh/11 - Biophysics and KaVVP/GVM-LT/16 - Latin terminology and KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-HisEmb 2/13 - Histology and embryology

Conditions for completion of the course:
100 % active participation on practical lessons and 2 credit tests (in 6th and 12th week of the semester).

Learning outcomes of the course:

Brief outline of the course:
-general microbiology (morphology and functions of bacteria, viruses and moulds)
-genetics of microorganisms (genetic code, plasmids, horizontal transfer of genetic information, recombinations, mutations)
- special bacteriology and mycology
- special virology
- diagnostical methods for detection of pathogens

Recommended literature:
1. Holoda E., Pistl J., Pilipčinec E.: Microbiology – General Microbiology, Study outlines, Dep. Microbiol. and Immunol., 2007.
2. Holoda E., Pistl J., Pilipčinec E.: Microbiology – Bacterial Genetics, Study outlines, Dep. Microbiol. and Immunol., 2008.
3. Pistl J., Holoda E., Pilipčinec E.: Microbiology – Special bacteriology, G-negative bacteria, Study outlines, Dep. Microbiol. and Immunol., 2007.
4. Pistl J., Holoda E., Pilipčinec E.: Microbiology – Special bacteriology, G-positive bacteria, Study outlines, Dep. Microbiol. and Immunol., 2007.
5. Pistl J. et al.: Veterinary virology, UVLP Košice, 2014.
6. Pilipčinec E., Pistl J. et al.: Practical lessons from Microbiology, UVMP in Košice, 2016.
7. Prescott L.M., Harley J.P., Klein D.A.: Microbiology. WCB Publish., Edit. K. Kane, WCB Communications Inc., 2005.
8. Tortora G. J., Funke B.R., Case CH.L. Microbiology. An introduction. Pearson, Benjamin Cummings, 2005.

9. Quinn P.J. et al.: Veterinary Microbiology and Microbial Diseases. Blackwell, 2002.
10. MacLachlan N. J. and Dubovi E. J.: Fanner's Veterinary virology, fourth edition. Elsevier Inc., 2011.
11. Markey, B., Leonard, F., Archambault, M., Cullinane, A., Maguire, D.: Clinical Veterinary Microbiology (Second edition), Mosby Elsevier. 2013.
12. P. J. Quinn, B. K., Markey, F. C. Leonard, E. S. FitzPatrick, S. Fanning, P. J. Hartigan: Veterinary Microbiology and Microbial Disease (Second edition), Wiley-Blackwell, 2013.
13. D. Scott McVey, Melissa Kennedy and M. M. Chengappa: Veterinary Microbiology (Third edition), Wiley-Blackwell, 2013.
14. Lectures from Microbiology and Immunology.

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 104

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Prof. MVDr. Juraj Pistl, PhD.
Lecturer: Prof. MVDr. Juraj Pistl, PhD.
Practical teacher: MVDr. Jana Koščová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaMBaI/GVM-Mic 2/15	**Course name:** Microbiology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 3 **Per study period:** 26 / 39
Method of study: present

Number of credits: 8

Recommended semester of the course study: 5.

Level of study: I.II.

Prerequisites: KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaBIOaGEN/GVM-Gen/16 - Genetics and KaMBaI/GVM-Mic 1/11 - Microbiology and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-Phys 2/14 - Physiology

Conditions for completion of the course:
100 % active participation on practical lessons and 2 credit tests (minimum is 5.5 points, maximum is 10 points). Exam at the end of WS is practical and written. Written exam (test) consists from 3 parts (General microbiology, Special bacteriology and Virology) that can be written separately. The final mark is sum of credit, practical exam and results from written part of the test.
Final mark: credit (10-20 %), practical exam (11-20 %) and test (30-60 %).

Learning outcomes of the course:

Brief outline of the course:
-general microbiology (morphology and functions of bacteria, viruses and moulds)
-genetics of microorganisms (genetic code, plasmids, horizontal transfer of genetic information, recombinations, mutations)
- special bacteriology and mycology
- special virology
- diagnostical methods for detection of pathogens

Recommended literature:
1. Holoda E., Pistl J., Pilipčinec E.: Microbiology – General Microbiology, Study outlines, Dep. Microbiol. and Immunol., 2007.
2. Holoda E., Pistl J., Pilipčinec E.: Microbiology – Bacterial Genetics, Study outlines, Dep. Microbiol. and Immunol., 2008.
3. Pistl J., Holoda E., Pilipčinec E.: Microbiology – Special bacteriology, G-negative bacteria, Study outlines, Dep. Microbiol. and Immunol., 2007.
4. Pistl J., Holoda E., Pilipčinec E.: Microbiology – Special bacteriology, G-positive bacteria, Study outlines, Dep. Microbiol. and Immunol., 2007.
5. Pistl J. et al.: Veterinary virology, UVLP Košice, 2014.
6. Pilipčinec E., Pistl J. et al.: Practical lessons from Microbiology, UVMP in Košice, 2016.
7. Prescott L.M., Harley J.P., Klein D.A.: Microbiology. WCB Publish., Edit. K. Kane, WCB Communications Inc., 2005.

8. Tortora G. J., Funke B.R., Case CH.L. Microbiology. An introduction. Pearson, Benjamin Cummings, 2005.
9. MacLachlan N. J. and Dubovi E. J.: Fanner's Veterinary virology, fourth edition. Elsevier Inc., 2011.
10. Markey, B., Leonard, F., Archambault, M., Cullinane, A., Maguire, D.: Clinical Veterinary Microbiology (Second edition), Mosby Elsevier. 2013
12. P. J. Quinn, B. K., Markey, F. C. Leonard, E. S. FitzPatrick, S. Fanning, P. J. Hartigan: Veterinary Microbiology and Microbial Disease (Second edition), Wiley-Blackwell, 2013.
13. D. Scott McVey, Melissa Kennedy and M. M. Chengappa (2013): Veterinary Microbiology (Third edition), Wiley-Blackwell, ISBN 978-1-118-65340-1.
14. Lectures from Microbiology and Immunology.

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 96

A	B	C	D	E	FX
4.17	12.5	20.83	44.79	16.67	1.04

Course teachers:
Guarantor of the course: Prof. MVDr. Juraj Pistl, PhD.
Lecturer: Prof. MVDr. Juraj Pistl, PhD.
Practical teacher: MVDr. Jana Koščová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-MZ/NeuroSA/18	**Course name:** Neurology in small animals

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 3 **Per study period:** 0 / 39
Method of study: present

Number of credits: 3

Recommended semester of the course study: 11.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 6

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Aladár Maďari, PhD.
Lecturer:
Practical teacher: MVDr. Aladár Maďari, PhD.MVDr. Mária Kuricová, PhD.MVDr. Jana Farbáková, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaVDCHZv/GVM-NutFeed 1/11	**Course name:** Nutrition and feeding of animals

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 4.

Level of study: I.II.

Prerequisites: KaVDCHZv/GVM-FeedPla/13 - Feed plant biology and toxic plants

Conditions for completion of the course:
After passing the semester the students has to know:
- Analytical procedures related with the chemical analysis of the feedstuffs
- Feed sampling and preparation for feed analysis
- Evaluation of nutrient content in feeds
- Functions, digestion and metabolism of nutrients in polygastric and monogastric animals
- Digestibility of nutrients, factors that affect it and methods to study digestibility
- Distribution and utilization of energy in the body
- Classification and characteristics of feed ingredients used in animal nutrition as well as antinutritional factors and additives

Learning outcomes of the course:
After passing the semester the students has to know:
- Analytical procedures related with the chemical analysis of the feedstuffs
- Feed sampling and preparation for feed analysis
- Evaluation of nutrient content in feeds
- Functions, digestion and metabolism of nutrients in polygastric and monogastric animals
- Digestibility of nutrients, factors that affect it and methods to study digestibility
- Distribution and utilization of energy in the body
- Classification and characteristics of feed ingredients used in animal nutrition as well as antinutritional factors and additives

Brief outline of the course:
The student will obtain the knowledge about nutrient and energy content in feed ingrediets used in nutrition of different animal species, their function, digestion and metabolism in polygastric and monogastric animals, about their digestibility, distribution and utilization of energy in the body, determination of nutrient in selected forage and concentrate and their evaluation, about classification and characteristics of feed ingredients used in animal nutrition as well as antinutritional factors and additives.

Recommended literature:
Pond W.G., Church D.C., Pond K.R.: Basic Animal Nutrition and Feeding

Ensminger, M.E., Olentine, J.E., Heineman, W.W.: Feeds and Nutrition
Donald Mc P., Edwards, R.A., Greenhalgh, J.E.D.: Animal Nutrition
material from lectures and practical lessons

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 104

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Doc. MVDr. Mária Demeterová, PhD.
Lecturer: Doc. MVDr. Mária Demeterová, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaVDCHZv/GVM-NutFeed 2/15	**Course name:** Nutrition and feeding of animals

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 8

Recommended semester of the course study: 5.

Level of study: I.II.

Prerequisites: KaVDCHZv/GVM-NutFeed 1/11 - Nutrition and feeding of animals and KaAHF/GVM-Phys 2/14 - Physiology and KaChBChBF/GVM-BiCh 2/14 - Biochemistry

Conditions for completion of the course:
Fulfilment of conditions for credit according to actual Organisation and study schedule guidelines of the UVMP in Košice. The subject is taught at the Department of Nutrition, Dietetics and Animal Breeding
1) Active participation at the practical lessons, students may miss at the maximum three practical lessons per semester, one of them may be omitted without compensation, the other must be substituted according to an agreement with the teacher
2) Elaboration of reports from practical lessons in written form (formulation of daily rations and mixtures)
3) Successfully completed credit tests
Final Exam: consists of practical part (formulation of daily ration, identification and characteristics of feedstuffs) and oral part ((three questions)

Learning outcomes of the course:
After passing the semester the students has to know:
- Basis of polygastric and monogastric animal nutrition in relation to different animal species (cattle, sheep, horse, rabbit, swine, poultry, carnivores) and respective categories and phases of nutrition (maintenance, lactation, pregnancy, growth, work intensity)
- To choose and combine the feed ingredients based on their nutrient content and presence of antinutritional compounds used for feeding of different animals species and categories
- Formulation and evaluation of daily rations for different animal species and categories
- Formulation and evaluation of complete mixtures for different animal species and categories
- To use PC software
- Basic health problems related with nutrition and feeding of respective animal species

Brief outline of the course:
The students will obtain the knowledge about nutrient requirements and ways of their saturation for different animal species, evaluate respective systems of feeding of animals, using PC software to formulate, balance and evaluate the daily rations for respective animal species and categories.

Existence of the subject within curriculum is essential for understanding of the effect of nutrition, as one of external factors affecting health, production and reproduction of animals.

Recommended literature:

Pond W.G., Church D.C., Pond K.R.: Basic Animal Nutrition and Feeding
Ensminger, M.E., Olentine, J.E., Heineman, W.W.: Feeds and Nutrition
Donald Mc P., Edwards, R.A., Greenhalgh, J.E.D.: Animal Nutrition
McDonald et al. Animal Nutrition, material from lectures and practical lessons

Language of instruction:

Notes:

Evaluation of the course

Total number of evaluated students: 98

A	B	C	D	E	FX
16.33	12.24	23.47	30.61	14.29	3.06

Course teachers:

Guarantor of the course: Doc. MVDr. Mária Demeterová, PhD.
Lecturer: Doc. MVDr. Mária Demeterová, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-K/ GVM-ObReRD/16	**Course name:** Obstetrics, reproduction and reproduction disorders

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 7.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaMBaI/GVM-Mic 2/15 - Microbiology and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:
Student after acquisition of techniques, methods, procedures used during examinations and therapy in reproduction and obstetrics and after passing practical lessons, lectures, practical and theoretical exam will be able to diagnose physiological changes on the organs of reproductive tract during estrous cycle. Will be competent to determine the optimal time for fertilization, diagnose pregnancy in all phases, recognize signs of incoming parturition, diagnose irregular parturition, facilitate run of the regular parturition, treat mother after parturition and young one after birth, manage puerperium. Will be able to deal with irregular parturition, do fetotomy and laparohysterectomy.
Will be able to give knowledgeable consultations for staff and breeders about estrus detection, treatment of pregnant mother, signs of incoming parturition, aid during parturition, treatment of mother and newborn.

Recommended literature:
LITERATURE:
1. ARTHUR, G.H. - NOAKES, D.E. - PEARSON, H.: Veterinary Reproduction and Obstetrics. ELBS / Bailliere Tindall, 1982.
2. BURKE, T.J.: Small Animal Reproduction and Infertility. Lea & Febiger, Philadelphia, 1986.
3. CURTIS, J.L.: Cattle Embryo Transfer Procedure. July, 1990.
4. HAFEZ, E.S.E.: Reproduction in Farm Animals. Lea & Febiger, Philadelphia, 1987.
5. HUGHES, P. - VARLEY, M.: Reproduction in the Pig. Butterworths.
6. HUNTER, R.H.F.: Physiology and Technology of Reproduction in Female Domestic Animals. Academic Press, London, 1980.
7. McDONALD, L.E.: Veterinary Endocrinology and Reproduction. Lea & Febiger, Philadelphia, 1980.
8. KNOBIL, E. - NEILL, J.D.: The Physiology of Reproduction. Raven Press, 1988.
9. LAING, J.A.: Fertility and Infertility in Domestic Animals. Bailliere Tindall, London, 1979.

10.MORROW, D.A.: Current Therapy in Theriogenology. W.B.Saunders Company, 1986.
11.PETERS, A.R. - BALL, P.J.H.: Reproduction in Cattle. Butterworth, 1987.
12.ROBERTS, S.J.: Veterinary Obstetrics and Genital Diseases (Theriogenology). Roberts, Woodstock, 1986.
13.ROWLANDS, I.W. - ALLEN, W.R. - ROSSDALE, P.D.: Equine Reproduction. Journal of Reproduction & Fertility, 1982.
14.SALISBURY, G.W. - VanDEMARK, N.L. - LODGE, J.R.: Physiology of Reproduction and Artificial Insemination of Cattle. W.H.Freeman and company, San Francisco, 1978.
15.SQUIRES, E.L. - COOK, V.M. - VOSS, J.L.: Collection and Transfer of Equine. Anima l Reproduction Laboratory Bulletin, No 1, 1985.
16. R. S. Youngquist, W.R. Threlfall.: Current Therapy in Large animal theriogenology 2, Saunders Elsevier, 2007

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 153

A	B	C	D	E	FX
56.21	22.88	12.42	5.88	2.61	0.0

Course teachers:
Guarantor of the course: Prof. MVDr. František Novotný, PhD.
Lecturer: Prof. MVDr. František Novotný, PhD.Prof. MVDr. Igor Valocký, PhD.
Practical teacher: Prof. MVDr. František Novotný, PhD.Prof. MVDr. Igor Valocký, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaEaP/BSc-JSP-Par 1/15	**Course name:** Parasitology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 7.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
100% active attendance of the students at practical lessons, (one can be missed without compensation). 60% active attendance of the students on lectures. Passing the written test in 10. week of semester.

Learning outcomes of the course:
After first semester of Parasitology, the student is familiar with morphology, life cycles,epidemiology and epizootology, pathogenesis, transmission of diseases, clinical signs, therapy, control of Protozoa and Artropods. Great attention is paid on zoonoses, and vector born diseases.

Brief outline of the course:
Introduction to parasitology, general terms, classification of parasites, special parasitology – protozoology. Arachnoenthomology, morphology, life cycle, epidemiology, pathogenesis and clinical signs, pathology, diagnosis, treatment and control of Protozoa and Arthropoda.

Recommended literature:
P. Deplazes, J. Eckert, A. Matis et. al.: Parasitology in veterinary medicine, 2016, Wageningen Academic Publishers, 653p.; M. Taylor, B. Coop, R. L. Wall: Veterinary parasitology, 2016, Willey Blackwell, 1006p.; G.M. Urquhart, J. Armour, J.L. Duncan et al.: Veterinary parasitology. 1987, Longman Scientific & Technical, 286p.; D.D. Bowman: Georgis´ parasitology for veterinarians, 10th edition, 2014, Elsevier Saunders, 477p.; V. Letková: Introduction to veterinary helminthology – diagnostic manual, 2016, 1st ed., printed by UVMP in Košice, 216p.

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 91

nezap	zap.
0.0	100.0

Guarantor of the course: Doc. MVDr. Alica Kočišová, PhD. Lecturer: Doc. MVDr. Alica Kočišová, PhD.MVDr. Gabriela Štrkolcová, PhD. Practical teacher: Doc. MVDr. Alica Kočišová, PhD.MVDr. Miloš Halán, PhD.MVDr. Karol Račka
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaEaP/GVM-Par 2/16	**Course name:** Parasitology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 3 **Per study period:** 26 / 39
Method of study: present

Number of credits: 5

Recommended semester of the course study: 8.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
100% active attendance of the students at practical lessons, (one can be missed without compensation), 60% active attendance of the students on Lectures. Passing the written test in 10th week of semester.

Learning outcomes of the course:
After second semester of Parasitology, the student is familiar with Helminths morphology, life cycles, epidemiology and epizootology, pathogenesis, transmission of diseases, clinical signs, therapy, control and their diagnosis. Great attention is paid on zoonoses, and vector-, food- and water-borne diseases.

Brief outline of the course:
Emphasis is placed on basic knowledge of helminths (Trematoda, Cestoda, Nematoda, Acanthocephala) morphology, biology, epidemiology, pathogenesis, diagnosis, therapy and control.

Recommended literature:
P. Deplazes, J. Eckert, A. Matis et. al.: Parasitology in veterinary medicine, 2016, Wageningen Academic Publishers, 653p.; M. Taylor, B. Coop, R. L. Wall: Veterinary parasitology, 2016, Willey Blackwell, 1006p.; G.M. Urquhart, J. Armour, J.L. Duncan et al.: Veterinary parasitology. 1987, Longman Scientific & Technical, 286p.; D.D. Bowman: Georgis´ parasitology for veterinarians, 10th edition, 2014, Elsevier Saunders, 477p.; V. Letková: Introduction to veterinary helminthology – diagnostic manual, 2016, 1st ed., printed by UVMP in Košice, 216p.

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 153

A	B	C	D	E	FX
22.22	21.57	22.22	16.99	11.11	5.88

Course teachers:

Guarantor of the course: Doc. MVDr. Alica Kočišová, PhD.
Lecturer: Doc. MVDr. Alica Kočišová, PhD.
Practical teacher: Doc. MVDr. Alica Kočišová, PhD.MVDr. Miloš Halán, PhD.MVDr. Gabriela Štrkolcová, PhD.MVDr. Karol Račka

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaPAaPF/GVM-PaA 1/11	**Course name:** Pathological anatomy
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 3 **Per study period:** 26 / 39 **Method of study:** present	
Number of credits: 0	
Recommended semester of the course study: 6.	
Level of study: I.II.	
Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-HisEmb 2/13 - Histology and embryology and KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaAHF/GVM-Phys 2/14 - Physiology	
Conditions for completion of the course: Credit - 100% attendance on practical lessons, to obtain min.51% from written test	
Learning outcomes of the course: Getting general knowledge about the causes and mechanisms of pathological lesions, and the ability to detect morphological and histological changes associated with dystrophy, necrosis, disorders of blood and lymph circulation, inflammatory and tumour processes.	
Brief outline of the course: Introduction in the study of pathology Post mortem changes Damage of cells - degenerations Death of cells Circulatory disturbances Inflammation - non-specific and specific Growth disturbances Tumours - basic knowledge Necropsy procedure	
Recommended literature: 1. Levkut, M., Kolodzieyski, L., Ševčíková, Z.: Practical Manual of Histopathology. Datahelp, Košice, 2008, 116 pp. 2. Levkut, M., Ševčíková, Z., Revajová, V., Herich, R: General Veterinary Pathology, UVMP, Košice, 2016, 107 pp.	
Language of instruction: English language	
Notes:	

Evaluation of the course
Total number of evaluated students: 97

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Prof. MVDr. Zuzana Ševčíková, PhD.
Lecturer: Prof. MVDr. Zuzana Ševčíková, PhD.Prof. MVDr. Mikuláš Levkut, DrSc.Doc. MVDr. Viera Revajová, PhD.Doc. MVDr. Róbert Herich, PhD.MVDr. Martin Levkut, PhD.Doc. MVDr. Norbert Žilka, DrSc.
Practical teacher: Doc. MVDr. Norbert Žilka, DrSc.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaPAaPF/GVM-PaA 2/16	**Course name:** Pathological anatomy
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 3 **Per study period:** 26 / 39 **Method of study:** present	
Number of credits: 7	
Recommended semester of the course study: 7.	
Level of study: I.II.	
Prerequisites: KaPAaPF/GVM-PaA 1/11 - Pathological anatomy and KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-HisEmb 2/13 - Histology and embryology and KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-Phys 2/14 - Physiology and KaMBaI/GVM-Mic 2/15 - Microbiology and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology	
Conditions for completion of the course: Credit - 100% attendance on lessons, pass out macroscopical and microscopical slides examination Pass out exam – oral form, questions from both general and special pathology are included	
Learning outcomes of the course: After graduation of the subject student will obtain knowledge about the causes and mechanisms of pathological lesions in different organs and will be able to recognize macroscopical and microscopical changes .	
Brief outline of the course: Pathology of respiratory system, cardiovascular system, gastrointestinal system, hepatobiliary system, hemopoetic system, urinary and reproductive systems, nervous system, skin and mammary gland.	
Recommended literature: OBLIGATORY LITERATURE 1. Levkut, M., Kolodzieyski, L., Ševčíková, Z.: Practical Manual of Histopathology. Datahelp, Košice, 2008, pp. 116 2. Levkut, M., Ševčíková, Z., Revajová, V., Herich, R: General Veterinary Pathology, UVMP, Košice, 2016, 107 pp. 3. Levkut, M., Revajová, V., Ševčíková, Z., Herich, R.: Special pathological anatomy, 2nd ed. UVMP, Košice, 2015, pp. 226 RECOMMENDED LITERATURE 1. THOMSON, R. G.: Special Veterinary Pathology. Third edition. Mosby Inc., USA, 2001, pp 755 2. JUBB, K., KENNEDY, P. C., PALMER, N.: Pathology of Domestic Animals, Third edition. Academic Press Inc., Vol. I, II, and III, 1993, pp. 780, 747, and 653	

3. ZACHARY, J.F., McGAVIN, M.D.: Pathologic Basis of Veterinary Diseases. Fifth Ed. Elsevier, Mosby. 2012, pp. 1322

Language of instruction:
English language

Notes:

Evaluation of the course
Total number of evaluated students: 149

A	B	C	D	E	FX
12.08	38.93	28.19	6.71	12.08	2.01

Course teachers:
Guarantor of the course: Prof. MVDr. Zuzana Ševčíková, PhD.
Lecturer: Prof. MVDr. Zuzana Ševčíková, PhD.Prof. MVDr. Mikuláš Levkut, DrSc.Doc. MVDr. Viera Revajová, PhD.Doc. MVDr. Róbert Herich, PhD.MVDr. Martin Levkut, PhD.Doc. MVDr. Norbert Žilka, DrSc.
Practical teacher: Doc. MVDr. Norbert Žilka, DrSc.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaChBChBF/GVM-PatBiCh/19	**Course name:** Pathological biochemistry

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 5.

Level of study: I.II.

Prerequisites: KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaAHF/GVM-Phys 2/14 - Physiology

Conditions for completion of the course:
1. Participation at seminary lessons 100% . In case of absence (max. 3 times) at a seminary lesson it is necessary to present the topic in the form of seminar work next week or in the credit week.
2. To obtain at least the evaluation of mark E from average of otained points in 8 written tests.

Learning outcomes of the course:

Brief outline of the course:
- Principles of metabolism regulation
- Disorders of glucose metabolism
- Disorders of fructose metabolism
- Disorders of galactose metabolism
- Disorders of pentose metabolism
- Disorders of glycogen metabolism
- Disorders of lipid metabolism
- Disorders of cholesterol metabolism
- Disorders of lipoprotein metabolism
- Disorders of amino acid metabolism and urea cycle
- Disorders of porphyrin metabolism
- Disorders of bilirubin metabolism
- Disorders of nucleotide metabolism
- Disorders of nutrition
- Hypovitaminosis, avitaminosis, hypervitaminosis
- Acid-base imbalance
- Water and electrolytes imbalance
- Disorders of hormone production by endocrine glands
- Saccharide, lipid, protein and amino acid metabolism in liver diseases
- Pathobiochemistry of kidney
- Pathobiochemistry of nerve system
- Pathobiochemistry of connective tissue

- Pathobiochemistry of blood
- Tumor metabolism

Recommended literature:

Harvey, R.A., Ferrier, D.R.: Lippincott´s Illustrated Reviews: Biochemistry. 5th Edition. Baltimore, Lippincott Wiliams and Wilkins, 2011, 521pp.
Koolman, J., Roehm, K. H.: Color Atlas of Biochemistry. 2nd Edition. Stuttgart; New York : Georg Thieme Verlag, 2005, 476 pp.
Nelson, D. L., Cox, M. M.: Lehninger Principles of Biochemistry. 4th Edition. New York : W. H. Freeman and Company, 2005, 1119 pp.
Stryer, L.: Biochemistry. 3rd Edition. New York : W. H. Freeman and Company, 1988, 1089 pp.

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 100

A	B	C	D	E	FX
39.0	34.0	16.0	9.0	2.0	0.0

Course teachers:
Guarantor of the course: Doc. MVDr. Zuzana Kostecká, PhD.
Lecturer:
Practical teacher: Doc. MVDr. Zuzana Kostecká, PhD.

Date of last modification: 07.07.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaPAaPF/GVM-PaPhy 1/11	**Course name:** Pathological physiology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 5.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaChBChBF/GVM-BiCh 2/14 - Biochemistry

Conditions for completion of the course:
There are two credit tests - at least 51% of correct answers are required. The student must attend all alsses. One classes can miss without compensation, other missed classes must compensate.

Learning outcomes of the course:
Students obtain knowledge about etiology, pathogenesis and outcomes of pathological processes in species. He understands an importance and role of regulatory mechanisms activating in disease. The knowledge is basis for dg procedures, prevention and therapy either by removal of etiological factors or affecting pathogenesis.He understands principles of processes that are common for many pathological processes (e.g., fever, inflammation, oedema, ...) and etiopathogenesis of system disorders (e.g., pathophysiology of haematopoiesis, circulatory system, endocrine gland system, digestive system, etc.). The student can solve cases present realistic situation that show theory in practice and reinforce students´understanding of each topic.

Brief outline of the course:
-Pathogenic stimuli of the external environment.
- Inflammation I.
-Inflammation II.
- Acid-base imbalances.
- Stress response.
- Disordsr of haemostasis.
-Fluid and electrolyte imbalances.
- Oedemas.
-Disorders of erythropoiesis.
- DIsorders of leukopoiesis.
- Dysfunstio of respiratory system.
- Disorders of GIT I.

Recommended literature:
Faixová, Z. et al. Practical classes in pathophysiology. University of veterinary medicine in Košice: Vienala, 2000. 132 p. ISBN 80-88985-31-5.

Faixová, Z. et al. General veterinary pathophysiology. University of veterinary medicine in Košice: Vienala, 2005. 192 p. ISBN 80-8077-018-2.
Faixová, Z. et al. Essentials of veterinary physiology. University of veterinary medicine in Košice: Vienala, 2007. 212 p. ISBN 978-80-8074-061-7.

Language of instruction:
English language

Notes:

Evaluation of the course
Total number of evaluated students: 106

nezap	zap.
0.94	99.06

Course teachers:
Guarantor of the course: Prof. MVDr. Zita Faixová, PhD.
Lecturer: Prof. MVDr. Zita Faixová, PhD.MVDr. Elena Piešová, PhD.MVDr. Zuzana Maková, PhD.MVDr. Lucia Tarabová, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaPAaPF/GVM-PaPhy 2/15	**Course name:** Pathological physiology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 8

Recommended semester of the course study: 6.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaAHF/GVM-Phys 2/14 - Physiology

Conditions for completion of the course:
There are two credit tests (at least 51% of correct answers are required of each one) and seminary work preparation. The student mus attend all classes, one cleasses can miss without compensation, other must compensate.

Learning outcomes of the course:
Students obtain knowledge about etiology, pathogenesis and outcomes of pathological processes in species. He understands an importance and role of regulatory mechanisms activating in disease. The knowledge is basis for dg procedures, prevention and therapy either by removal of etiological factors or affecting pathogenesis.He understands principles of processes that are common for many pathological processes (e.g., fever, inflammation, oedema, ...) and etiopathogenesis of system disorders (e.g., pathophysiology of haematopoiesis, circulatory system, endocrine gland system, digestive system, etc.). Can evaluate and interprete biochemical blood test results and explain them in relation to the etiopathogenesis, history of patient and other test results.

Brief outline of the course:
- Calcium, phosphorus, magnesium vit D disturbances, osteopathies and tetany.
- Forestomach function disturbances.
-Cardiac arrhythmias.
- Muscle diseases.
- GIT dysfunctions II.
- GIT dysfunctions III.
- Liver dysfunctions I.
-Liver dysfunctions II.
- Hormonal hypo/hypersecretion I.
- Hormonal hypo/hypersecretion II.
- Kidney dysfunction.
- Nervous system dysfunctions I
- Nervous system dysfunctions II

Recommended literature:

Faixová, Z. et a. PRactical classes in pathophysiology. Vienala publishing house: University of veterinary medicine in Košice. 2000, 132 p. ISBN 80-88985-31-5.
Faixová, Z. et al. General veterinary pathophysiology. Vienala publishing house: University of veterianry medicine in Košice. 2005, 195 p. ISBN 80-8077-018-2.
Faixová, Z. et al. Essentials of veterinary pathophysiology. Vienala publishing house: University of veterinary medicine in Košice. 2007. 212 p. ISBN 978-80-8077-061-7.

Language of instruction:
English language

Notes:

Evaluation of the course
Total number of evaluated students: 105

A	B	C	D	E	FX
10.48	22.86	30.48	20.95	10.48	4.76

Course teachers:
Guarantor of the course: Prof. MVDr. Zita Faixová, PhD.
Lecturer: Prof. MVDr. Zita Faixová, PhD.MVDr. Elena Piešová, PhD.MVDr. Zuzana Maková, PhD.MVDr. Lucia Tarabová, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaFaT/GVM-PhrmPhTh 1/16	**Course name:** Pharmacology, pharmacy and therapeutics
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 2 **Per study period:** 26 / 26 **Method of study:** present	
Number of credits: 0	
Recommended semester of the course study: 5.	
Level of study: I.II.	
Prerequisites: KaVVP/GVM-LT/16 - Latin terminology and KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaChBChBF/GVM-BiCh 2/14 - Biochemistry	
Conditions for completion of the course: For awarding of credits is needed: - 100% participation on practical lessons (one can be missed without compensation and two must be compensate) - obtain minimum 5% from short tests (weekly tests) and credit test altogether or maximum 10% (5% from short tests and 5% from credit test) in the winter and spring semester and (the evaluation is included to the final evaluation in exam) - pass successfully the exam.	
Learning outcomes of the course: Completing the course the student is prepared for further clinical subjects in the area of therapy of animal diseases.	
Brief outline of the course: The education process is focused on three parts: pharmacology (general and special), pharmacy and pharmacotherapeutics. The principles of three phases drugs-organism interactions are determined by the general pharmacology: - the pharmaceutical phase is aimed to incompatibilities in vitro, disintegration of the dosage form and release of the active substance; - the pharmacokinetic phase determines the fate of administered substances in the living organism (absorption, distribution, metabolism and excretion) and - the pharmacodynamic phase accounts for the interaction of the drug with respect to the receptor of subsequent therapeutic effect. A part of general pharmacology explains the basic principles of dosage regimen, interactions with co-administration of several substances, adverse effects of drugs, the drugs residues and their determination in food. The special pharmacology is focused on the description of drugs used in the pharmacotherapy of infectious diseases (antimicrobials) against parasites (antiparasites), for disinfection and the drugs	

affecting individual organ systems (CNS drugs, autonomic nervous system, cardiovascular system, respiratory system, digestive system etc.).
The part of Pharmacy comprises legislation connected with performance of veterinary pharmacy, classification and characteristics of dosage forms and their preparation.
The part of Pharmacotherapeutics contains information about the most frequently used mass produced preparations in clinical practice with emphasis on contraindications, interactions and side effects in animals.

Recommended literature:

1./ Adams H.R. (ed.): Veterinary Pharmacology and Therapeutics, 8th Edition, Iowa State Press - A Blackwell Publishing Company, 2001, 1174 pp.
2./ Riviere J.E., Papich M.G. (ed.): Veterinary Pharmacology & Therapeutics, 9th Edition, Blackwell Publishing, 2009, 1524 pp.
3./ Šutiak V., Berecký I., Lopuchovský J.: Guide-book of Prescriptions and Practical Pharmacological Exercises, UVM Košice, 2002, 270 pp.
4./ Brenner G.M., Stevens C.W.: Pharmacology, 2nd Edition, Saunders, 2006, 510 pp.
5./ Wanamaker B. P., Massey K. L.: Applied Pharmacology for the Veterinary Technician, 3rd Edition, Saunders, 2004, 436 pp.
6./ The Merck Veterinary Manual: http://www.merckvetmanual.com
7./ Plumb D.C.: Plumb's Veterinary Drug Handbook, 6th Edition, Blackwell Publishing, 2008, 1463 pp.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 99

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Doc. MVDr. Eva Čonková, PhD.
Lecturer: Doc. MVDr. Eva Čonková, PhD.MVDr. Peter Váczi, PhD.MVDr. Lucia Sabová, PhD.
Practical teacher: MVDr. Dana Marcinčáková, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaFaT/GVM-PhrmPhTh 2/16	**Course name:** Pharmacology, pharmacy and therapeutics
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 2 **Per study period:** 26 / 26 **Method of study:** present	
Number of credits: 8	
Recommended semester of the course study: 6.	
Level of study: I.II.	
Prerequisites: KaVVP/GVM-LT/16 - Latin terminology and KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaAHF/GVM-Phys 2/14 - Physiology	
Conditions for completion of the course: For awarding of credits is needed: - 100% participation on practical lessons (one can be missed without compensation and two must be compensate) - obtain minimum 5% from short tests (weekly tests) and credit test altogether or maximum 10% (5% from short tests and 5% from credit test) in the winter and spring semester and (the evaluation is included to the final evaluation in exam) - pass successfully the exam.	
Learning outcomes of the course: Completing the course the student is prepared for further clinical subjects in the area of therapy of animal diseases.	
Brief outline of the course: The education process is focused on three parts: pharmacology (general and special), pharmacy and pharmacotherapeutics. The principles of three phases drugs-organism interactions are determined by the general pharmacology: - the pharmaceutical phase is aimed to incompatibilities in vitro, disintegration of the dosage form and release of the active substance; - the pharmacokinetic phase determines the fate of administered substances in the living organism (absorption, distribution, metabolism and excretion) and - the pharmacodynamic phase accounts for the interaction of the drug with respect to the receptor of subsequent therapeutic effect. A part of general pharmacology explains the basic principles of dosage regimen, interactions with co-administration of several substances, adverse effects of drugs, the drugs residues and their determination in food. The special pharmacology is focused on the description of drugs used in the pharmacotherapy of infectious diseases (antimicrobials) against parasites (antiparasites), for disinfection and the drugs	

affecting individual organ systems (CNS drugs, autonomic nervous system, cardiovascular system, respiratory system, digestive system etc.).
The part of Pharmacy comprises legislation connected with performance of veterinary pharmacy, classification characteristics of dosage forms and their preparation.
The part of Pharmacotherapeutics contains information about the most frequently used mass produced preparations in clinical practice with emphasis on contraindications, interactions and side effects in animals.

Recommended literature:

1./ Adams H.R. (ed.): Veterinary Pharmacology and Therapeutics, 8th Edition, Iowa State Press - A Blackwell Publishing Company, 2001, 1174 pp.
2./ Riviere J.E., Papich M.G. (ed.): Veterinary Pharmacology & Therapeutics, 9th Edition, Blackwell Publishing, 2009, 1524 pp.
3./ Šutiak V., Berecký I., Lopuchovský J.: Guide-book of Prescriptions and Practical Pharmacological Exercises, UVM Košice, 2002, 270 pp.
4./ Brenner G.M., Stevens C.W.: Pharmacology, 2nd Edition, Saunders, 2006, 510 pp.
5./ Wanamaker B. P., Massey K. L.: Applied Pharmacology for the Veterinary Technician, 3rd Edition, Saunders, 2004, 436 pp.
6./ The Merck Veterinary Manual: http://www.merckvetmanual.com
7./ Plumb D.C.: Plumb's Veterinary Drug Handbook, 6th Edition, Blackwell Publishing, 2008, 1463 pp.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 127

A	B	C	D	E	FX
14.96	18.9	30.71	21.26	14.17	0.0

Course teachers:
Guarantor of the course: Doc. MVDr. Eva Čonková, PhD.
Lecturer: Doc. MVDr. Eva Čonková, PhD.MVDr. Peter Váczi, PhD.MVDr. Lucia Sabová, PhD.
Practical teacher: MVDr. Dana Marcinčáková, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/PhEd-1.1/11	**Course name:** Physical education

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 1.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
participation in the exercises

Learning outcomes of the course:
increasing the level of physical fitness, the level of skills and knowledge about the sport

Brief outline of the course:
testing initial level - improving the physical level - raising the level of individual activities - methodology of sports and rules

Recommended literature:

Language of instruction:

Notes:
basketball, badminton, football, volleyball, cardio exercise, aerobics, frisbee

Evaluation of the course
Total number of evaluated students: 6

nezap	zap.
33.33	66.67

Course teachers:
Guarantor of the course: PaedDr. Beáta Gajdošová
Lecturer:
Practical teacher: PaedDr. Beáta Gajdošová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/PhEd-1.2/11	**Course name:** Physical education

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 2.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
participation in the exercises

Learning outcomes of the course:
increasing the level of physical fitness, the level of skills and knowledge about the sport

Brief outline of the course:
testing initial level - improving the physical level - raising the level of individual activities - methodology of sports and rules

Recommended literature:

Language of instruction:

Notes:
basketball, badminton, football, volleyball, cardio exercise, aerobics, frisbee

Evaluation of the course
Total number of evaluated students: 6

nezap	zap.
16.67	83.33

Course teachers:
Guarantor of the course: PaedDr. Beáta Gajdošová
Lecturer:
Practical teacher: PaedDr. Beáta Gajdošová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/PhEd-2. 1/11	**Course name:** Physical education

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 3.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
participation in the exercises

Learning outcomes of the course:
increasing the level of physical fitness, the level of skills and knowledge about the sport

Brief outline of the course:
testing initial level - improving the physical level - raising the level of individual activities - methodology of sports and rules

Recommended literature:

Language of instruction:

Notes:
basketball, badminton, football, volleyball, cardio exercise, aerobics, frisbee

Evaluation of the course
Total number of evaluated students: 4

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: PaedDr. Beáta Gajdošová
Lecturer:
Practical teacher: PaedDr. Beáta Gajdošová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/PhEd-2.2/11	**Course name:** Physical education

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 4.

Level of study: I., I.II.

Prerequisites:

Conditions for completion of the course:
participation in the exercises

Learning outcomes of the course:
increasing the level of physical fitness, the level of skills and knowledge about the sport

Brief outline of the course:
testing initial level - improving the physical level - raising the level of individual activities - methodology of sports and rules

Recommended literature:

Language of instruction:

Notes:
basketball, badminton, football, volleyball, cardio exercise, aerobics, frisbee

Evaluation of the course
Total number of evaluated students: 4

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: PaedDr. Beáta Gajdošová
Lecturer:
Practical teacher: PaedDr. Beáta Gajdošová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/PhEd-3. 1/14	**Course name:** Physical education

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 5.

Level of study: I., I.II.

Prerequisites:

Conditions for completion of the course:
participation in the exercises

Learning outcomes of the course:
increasing the level of physical fitness, the level of skills and knowledge about the sport

Brief outline of the course:
testing initial level - improving the physical level - raising the level of individual activities - methodology of sports and rules

Recommended literature:

Language of instruction:

Notes:
basketball, badminton, football, volleyball, cardio exercise, aerobics, frisbee

Evaluation of the course
Total number of evaluated students: 37

nezap	zap.
16.22	83.78

Course teachers:
Guarantor of the course: PaedDr. Beáta Gajdošová
Lecturer:
Practical teacher: PaedDr. Beáta Gajdošová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/PhEd-3. 2/14	**Course name:** Physical education

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 6.

Level of study: I., I.II.

Prerequisites:

Conditions for completion of the course:
participation in the exercises

Learning outcomes of the course:
increasing the level of physical fitness, the level of skills and knowledge about the sport

Brief outline of the course:
testing initial level - improving the physical level - raising the level of individual activities - methodology of sports and rules

Recommended literature:

Language of instruction:

Notes:
basketball, badminton, football, volleyball, cardio exercise, aerobics, frisbee

Evaluation of the course
Total number of evaluated students: 39

nezap	zap.
7.69	92.31

Course teachers:
Guarantor of the course: PaedDr. Beáta Gajdošová
Lecturer:
Practical teacher: PaedDr. Beáta Gajdošová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/PhEd-4. 1/15	**Course name:** Physical education

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 7.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
participation in the exercises

Learning outcomes of the course:
increasing the level of physical fitness, the level of skills and knowledge about the sport

Brief outline of the course:
testing initial level - improving the physical level - raising the level of individual activities - methodology of sports and rules

Recommended literature:

Language of instruction:

Notes:
basketball, badminton, football, volleyball, cardio exercise, aerobics, frisbee

Evaluation of the course
Total number of evaluated students: 18

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: PaedDr. Beáta Gajdošová
Lecturer:
Practical teacher: PaedDr. Beáta Gajdošová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/PhEd-4. 2/15	**Course name:** Physical education

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 8.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
participation in the exercises

Learning outcomes of the course:
increasing the level of physical fitness, the level of skills and knowledge about the sport

Brief outline of the course:
testing initial level - improving the physical level - raising the level of individual activities - methodology of sports and rules

Recommended literature:

Language of instruction:

Notes:
basketball, badminton, football, volleyball, cardio exercise, aerobics, frisbee

Evaluation of the course
Total number of evaluated students: 27

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: PaedDr. Beáta Gajdošová
Lecturer:
Practical teacher: PaedDr. Beáta Gajdošová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/PhEd-5. 1/15	**Course name:** Physical education

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 9.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
participation in the exercises

Learning outcomes of the course:
increasing the level of physical fitness, the level of skills and knowledge about the sport

Brief outline of the course:
testing initial level - improving the physical level - raising the level of individual activities - methodology of sports and rules

Recommended literature:

Language of instruction:

Notes:
basketball, badminton, football, volleyball, cardio exercise, aerobics, frisbee

Evaluation of the course
Total number of evaluated students: 27

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: PaedDr. Beáta Gajdošová
Lecturer:
Practical teacher: PaedDr. Beáta Gajdošová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/PhEd-5. 2/15	**Course name:** Physical education

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 10.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
participation in the exercises

Learning outcomes of the course:
increasing the level of physical fitness, the level of skills and knowledge about the sport

Brief outline of the course:
testing initial level - improving the physical level - raising the level of individual activities - methodology of sports and rules

Recommended literature:

Language of instruction:

Notes:
basketball, badminton, football, volleyball, cardio exercise, aerobics, frisbee

Evaluation of the course
Total number of evaluated students: 27

nezap	zap.
3.7	96.3

Course teachers:
Guarantor of the course: PaedDr. Beáta Gajdošová
Lecturer:
Practical teacher: PaedDr. Beáta Gajdošová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/PhEd-6.1/15	**Course name:** Physical education

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 11.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
participation in the exercises

Learning outcomes of the course:
increasing the level of physical fitness, the level of skills and knowledge about the sport

Brief outline of the course:
testing initial level - improving the physical level - raising the level of individual activities - methodology of sports and rules

Recommended literature:

Language of instruction:

Notes:
basketball, badminton, football, volleyball, cardio exercise, aerobics, frisbee

Evaluation of the course
Total number of evaluated students: 17

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: PaedDr. Beáta Gajdošová
Lecturer:
Practical teacher: PaedDr. Beáta Gajdošová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/PhEd-6.2/18	**Course name:** Physical education

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 12.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
participation in the exercises

Learning outcomes of the course:
increasing the level of physical fitness, the level of skills and knowledge about the sport

Brief outline of the course:
testing initial level - improving the physical level - raising the level of individual activities - methodology of sports and rules

Recommended literature:

Language of instruction:

Notes:
basketball, badminton, football, volleyball, cardio exercise, aerobics, frisbee

Evaluation of the course
Total number of evaluated students: 5

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: PaedDr. Beáta Gajdošová
Lecturer:
Practical teacher: PaedDr. Beáta Gajdošová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaAHF/GVM-Phys 1/11	**Course name:** Physiology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 3 **Per study period:** 26 / 39
Method of study: present

Number of credits: 0

Recommended semester of the course study: 3.

Level of study: I.II.

Prerequisites: KaBIOaGEN/GVM-Biol/16 - Biology and KaChBChBF/GVM-Ch/16 - Chemistry

Conditions for completion of the course:
Conditions for credit acquisition:
1. Active attendance of student minimally on 12 practical lessons.
2. Student is obliged to compensate missed practical/seminar with proving his/her knowledge of practiced topics.
3. Student is obliged to present chosen seminar work.
4. Passing credit tests from selected practical topics (minimum 55 %) in the 6th and 13th week, respectively also in alternative dates (1st and 2nd repair test).

Learning outcomes of the course:
Student who have completed the first semester of the subject is able to describe structure and functions of various organ systems such as: cardiovascular (including blood, immune and lymphatic system), respiratory, urinary and gastrointestinal (including monogastrics, ruminants and birds) systems.

Brief outline of the course:
1. Introduction to Veterinary Physiology
2. Physiology of Cell
3. Physiology of Blood
4. Basics of Immune System
5.Introduction to Nervous System
6.Physiology of Heart
7. Circulatory System
8. Respiratory System
9. Urinary System
10. Digestion in Monogastric Animals
11. Digestion in Ruminants
12. Pancreas and Liver
13. Intermediary Metabolism

Recommended literature:

1. Ondrašovičová, S., Vlčková, R., Andrejčáková, Z., Koppel, J., Faix, Š.: Veterinary Physiology I. Editorial centre UVMP Košice, 2017.
2. R. Vlčková, S. Ondrašovičová, Z. Andrejčáková, D. Sopková, Š. Faix: Practical exercises and seminars in Physiology. Editorial centre UVMP Kosice, 2015.
3. O.V. Sjaastad, K. Hove, O. Sand: Physiology of Domestic Animals. Scandinavian Veterinary Press 2003.
4. J.G. Cunningham, B.G. Klein: Textbook of Veterinary Physiology. 4th Ed. Saunders Elsevier 2007.
5. Y. Ruckebusch, L.P. Phaneuf, R. Dunlop: Physiology of Small and Large Animals. B.C. Decker, Inc. 1991.
6. C.D. Moyes, P.M. Schulte: Principles of Animal Physiology. Pearson B. Cummings 2006.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 117

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Silvia Ondrašovičová, PhD.
Lecturer: MVDr. Silvia Ondrašovičová, PhD.MVDr. Radoslava Vlčková, PhD.MVDr. Zuzana Andrejčáková, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaAHF/GVM-Phys 2/14	**Course name:** Physiology
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 3 **Per study period:** 26 / 39 **Method of study:** present	
Number of credits: 8	
Recommended semester of the course study: 4.	
Level of study: I.II.	
Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-HisEmb 1/11 - Histology and embyology and KaAHF/GVM-HisEmb 2/13 - Histology and embryology and KaBIOaGEN/GVM-Biol/16 - Biology and KaChBChBF/GVM-Ch/16 - Chemistry	
Conditions for completion of the course: Conditions for credit acquisition: 1. Active attendance of student minimally on 12 practical lessons. 2. Student is obliged to compensate missed practical/seminar with proving his/her knowledge of practiced topics. 3. Student is obliged to present chosen seminar work. 4. Passing credit tests from selected practical topics (minimum 55 %) in the 7th and 13th week, respectively also in alternative dates .	
Learning outcomes of the course: Student which have completed the second semester of the subject is able to describe structure and functions of various organ systems such as: endocrine (including special endocrine glands), reproductive (including male, female and birds), lactation, muscles, bones and growth, nervous system (including peripheral, central and autonomic, special senses), skin and thermoregulation.	
Brief outline of the course: 1. Endocrine System - general, hypothalamus-pituitary axis 2. Endocrine System - endocrine glands 3. Reproductive System - general, male reproduction 4. Reproductive System - female reproduction 5. Reproductive System - sexual behaviour, pregnancy, parturition 6. Lactation 7. Bones, Joints, Growth and Ontogenesis 8. Muscles 9. Central Nervous System 10. Peripheral and Autonomic Nervous System 11. Special Senses - vision, olfactory, gustation 12. Special Senses - hearing, sense of balance, touch, pressure, temperature, kinaesthesis 13. Skin and Thermoregulation	

Recommended literature:

1. Ondrašovičová, S., Vlčková, R., Andrejčáková, Z., Koppel, J., Faix, Š.: Veterinary Physiology I. Editorial centre UVMP Košice, 2017.
2. R. Vlčková, S. Ondrašovičová, Z. Andrejčáková, D. Sopková, Š. Faix: Practical exercises and seminars in Physiology. Editorial centre UVMP Kosice, 2015.
3. O.V. Sjaastad, K. Hove, O. Sand: Physiology of Domestic Animals. Scandinavian Veterinary Press 2003.
4. J.G. Cunningham, B.G. Klein: Textbook of Veterinary Physiology. 4th Ed. Saunders Elsevier 2007.
5. Y. Ruckebusch, L.P. Phaneuf, R. Dunlop: Physiology of Small and Large Animals. B.C. Decker, Inc. 1991.
6. C.D. Moyes, P.M. Schulte: Principles of Animal Physiology. Pearson B. Cummings 2006.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 112

A	B	C	D	E	FX
19.64	25.89	16.96	12.5	25.0	0.0

Course teachers:
Guarantor of the course: MVDr. Silvia Ondrašovičová, PhD.
Lecturer: MVDr. Silvia Ondrašovičová, PhD.MVDr. Radoslava Vlčková, PhD.MVDr. Zuzana Andrejčáková, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaEaP/GVM-PreVetM/17	**Course name:** Preventive veterinary medicine

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 4

Recommended semester of the course study: 9.

Level of study: I.II.

Prerequisites: KaEaP/GVM-Epi 2/16 - Epizootology

Conditions for completion of the course:
100% practical lessons
75% lectures

Learning outcomes of the course:
Basic knowledge about general and specific principles of disease prevention and control, specific anti infectious measures according animal species

Brief outline of the course:
• General principles of infectious disease prevention and control
• Prevention and control of infectious diseases in cattle
• Prevention and control of infectious diseases in pigs
• Prevention and control of infectious diseases in sheep and goats
• Prevention and control of infectious diseases in horses
• Prevention and control of infectious diseases in poultry
• Prevention and control of infectious diseases in dogs and cats
• Prevention and control of infectious diseases in ZOO animals
• Prevention and control of infectious diseases in fur animals

Recommended literature:
Sharama R.D. Textbook of Preventive Veterinary Medicine and Epidemiology, 2010,Indian Council of Agricultural Research, ISBN-13: 978-8171640621

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 103

A	B	C	D	E	FX
25.24	32.04	23.3	7.77	10.68	0.97

Course teachers: Guarantor of the course: Dr. h. c. Prof. MVDr. Jana Mojžišová, PhD. Lecturer: Dr. h. c. Prof. MVDr. Jana Mojžišová, PhD.MVDr. Milan Čížek, PhD.MVDr. René Mandelík, PhD.MVDr. Boris Vojtek, PhD.MVDr. Peter Smrčo, PhD. Practical teacher:
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaBIOaGEN/ ProfCom/18	**Course name:** Professional communication
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 0 / 2 **Per study period:** 0 / 26 **Method of study:** present	
Number of credits: 3	
Recommended semester of the course study: 11.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course: Method of assessment and course study completion: Credit a. active participation on seminars according to study regulations valid for the given academic year. The minimum required attendance at seminars is 75%. b. preparation and presentation of role plays c. passing a written test in the scope of the subject with the success of min. 51% at the end of the semester	
Learning outcomes of the course: Aim of the education process is to prepare students for further career. Help them to gain practical experience in communication and negotiation with clients. The main educational outcome that the student acquires by the subject is the understanding of the professional communication associated with veterinary profession. The student will master the principles of professional communication in interaction graduate/employer and veterinarian/veterinarian, client, state administration authority and/or the private sector, as well as the academic environment. It will acquire communication and presentation skills useful in setting up and operating private practice, further education and gaining specialization.	
Brief outline of the course: The subject in a comprehensive form provides basic information about communication, its ways, forms and styles, and their application in problem solving situations. It also deals with person typology from the point of view of communication. Describes advantages of assertive communication and the need to use presentation skills in self-presentation before the professional and non-professional public. The content of the subject also include the communication of graduates with the state and private institutions when applying for employment, as well as the establishment and development of veterinary practice from the point of view of its management and marketing.	
Recommended literature:	
Language of instruction:	

English

Notes:

Evaluation of the course
Total number of evaluated students: 70

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Martin Tomko, PhD.
Lecturer:
Practical teacher: MVDr. Martin Tomko, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaŽPVLE/GVM-ProEth/16	**Course name:** Professional ethics
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 1 / 2 **Per study period:** 13 / 26 **Method of study:** present	
Number of credits: 5	
Recommended semester of the course study: 3.	
Level of study: I.II.	
Prerequisites: KaBIOaGEN/GVM-Biol/16 - Biology and KaChBChBF/GVM-Ch/16 - Chemistry and KaBIOaGEN/GVM-Zool/13 - Zoology	
Conditions for completion of the course: Preparation and active presentation of seminar thesis, active work at practice lessons	
Learning outcomes of the course: Course completion gives knowledge about bioethics view of animals, their physiological and psychological needs and ethical interpretation of welfare. Student will be informed about the fundamental ethical principles of the profession of veterinary surgeon also.	
Brief outline of the course: - ethics - introduction, history - bioethics - animal rights, welfare - experiment on animals - euthanasia - welfare of farm animals, companion animals - veterinary ethics, oath, vet. imperative - communication in veterinary practice – cases	
Recommended literature: 1. Tannenbaum, J., (1995): VETERINARY ETHICS, Animal welfare, client relations, competition and collegiality 2. Orlans, F. B. et al., (1998): THE HUMAN USE OF ANIMALS, Case studies in ethical choice 3. Rollin, B.E., (2006): AN INTRODUCTION TO VETERINARY MEDICAL ETHICS, Theory and cases	
Language of instruction: english	
Notes:	

Evaluation of the course
Total number of evaluated students: 63

A	B	C	D	E	FX
44.44	20.63	19.05	7.94	6.35	1.59

Course teachers:
Guarantor of the course: Prof. MVDr. Jana Kottferová, PhD.
Lecturer: Prof. MVDr. Jana Kottferová, PhD.
Practical teacher: MVDr. Lenka Skurková, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-P/ GVM-Prop 1/16	**Course name:** Propedeutics

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 6.

Level of study: I.II.

Prerequisites: KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaAHF/GVM-Phys 2/14 - Physiology

Conditions for completion of the course:
participation in practicals, credit

Learning outcomes of the course:
Students are able to examine the animals using inspection, palpation, auscultation, and percussion. Moreover, they are able to analyze laboratory results in relationship to clinical examination.

Brief outline of the course:
1. Methods of restrain, identification, general state, and basic life values. 2. Examination of organ systems. 3. Laboratory work. 4. Individual examination of patiens.

Recommended literature:
Veterinary clinical diagnosis, 2 nd Edition, W.R.Kelly, London, Baikliere Tindal, 1974
Clinical examination of cattle, Rosenberger G.,Berlin, Hamburg, Verlag von Parey 1979
Clinical diagnosis in veterinary medicine, Bartko P. et al., UVM, Košice, 1995
Veterinary Clinical Examination and Diagnosis, Radostitis, O. M. et al., Saunders (W.B.) Co Ltd, 2000.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 99

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM
Lecturer: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHMMVDr. Vladimír Hisira, PhD.
Practical teacher: MVDr. Marián Kadaši, PhD.MVDr. Michal Dolník, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-P/ GVM-Prop 2/16

Course name: Propedeutics

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 5

Recommended semester of the course study: 7.

Level of study: I.II.

Prerequisites: K-P/GVM-Prop 1/16 - Propedeutics

Conditions for completion of the course:
participation in practicals, exam

Learning outcomes of the course:
Students are able to examine the animals using inspection, palpation, auscultation, and percussion. Moreover, they are able to analyze laboratory results in relationship to clinical examination.

Brief outline of the course:
1. Methods of restrain, identification, general state, and basic life values. 2. Examination of organ systems. 3. Laboratory work. 4. Individual examination of patiens.

Recommended literature:
Veterinary clinical diagnosis, 2 nd Edition, W.R.Kelly, London, Baikliere Tindal, 1974
Clinical examination of cattle, Rosenberger G.,Berlin, Hamburg, Verlag von Parey 1979
Clinical diagnosis in veterinary medicine, Bartko P. et al., UVM, Košice, 1995
Veterinary Clinical Examination and Diagnosis, Radostitis, O. M. et al., Saunders (W.B.) Co Ltd, 2000.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 106

A	B	C	D	E	FX
1.89	21.7	29.25	27.36	19.81	0.0

Course teachers:
Guarantor of the course: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM
Lecturer: Prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHMMVDr. Vladimír Hisira, PhD.
Practical teacher: MVDr. Marián Kadaši, PhD.MVDr. Michal Dolník, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaEaP/GVM-ProtAnEU/16	**Course name:** Protection of animals used in biomedical research according to EU legislation

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 7.

Level of study: I.II.

Prerequisites: KaŽPVLE/GVM-AnHyW/11 - Animal hygiene and welfare and KaŽPVLE/GVM-AnE/16 - Animal ethology

Conditions for completion of the course:
Block completion of lectures and exercises; Seminar work (experimental design protocol); Exam

Learning outcomes of the course:
Training in animal welfare, ethics and law within EU, good practice in animal experimentation design

Brief outline of the course:
Ethics, bio-ethics, UE legislation in the animal protection in research, animal models, model selection, clinical experiments, animal welfare

Recommended literature:
Directive 2010/63/EU on the protection of animals used for scientific purposes, adopted on 22 September 2010.
Guide for the Care and Use of Laboratory Animals, Institute of Laboratory Animal Resources, National Academy Press, Washington DC., 1996
Laboratory Animal Medicine (Second Edition), J.G. Fox, L.C. Anderson, F.M. Loew and F.W. Quimby (Eds.), Elsevier Inc. 2002
Laboratory Animal Management and Welfare, S. Wolfensohn and M. Lloyd, Wiley-Blackwell, Oxford University Press, 2013

Language of instruction:
English

Notes:
The subject is provided for minimum of 5 students.

Evaluation of the course
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Course teachers: Guarantor of the course: MVDr. Zuzana Hurníková, PhD. Lecturer: MVDr. Zuzana Hurníková, PhD. Practical teacher:
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaŽPVLE/GVM-SSE-PrEn/17	**Course name:** Protection of the environment and public health

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 3 **Per study period:** 26 / 39
Method of study: present

Number of credits: 0

Recommended semester of the course study: 9.

Level of study: I.II.

Prerequisites: KaMBaI/GVM-Mic 2/15 - Microbiology and KaMBaI/GVM-Im/16 - Immunology and KaFaT/GVM-Tox/16 - Toxicology and KaEaP/GVM-Epi 2/16 - Epizootology and KaEaP/GVM-Par 2/16 - Parasitology

Conditions for completion of the course:
Methods of assessment and course study completion. 1. Participation on lectures (75%) and practical courses according to study regulations (100%). 2. Preparing and hand-over of protocols from practical couses. 3. Written test (week 7th) - 51% success rate.

Learning outcomes of the course:
Preparing for final state examination from subject Contagious diseases of animals, protection of the environment and public health and veterinary legislation.

Brief outline of the course:
Preventive sanitation measures in the farm and in the environmnet. Ensuring acute sanitation measures and focal disinfection of environments and objects on a farm in the spread of viral, bacterial and parasitic diseases in terms of environmental protection.
Use of different groups of disinfectants, control of disinfection efficiency. Hygienic evaluation of water sources, disinfection of water. Hygienic aspects of excrement processing, their disinfection.

Recommended literature:
Sasáková, N., Vargová, M., Gregová, G. Protection of the environment and public health. Košice, 2014.

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 34

nezap	zap.
0.0	100.0

Course teachers:

Guarantor of the course: Doc. MVDr. Naďa Sasáková, PhD.
Lecturer: Doc. MVDr. Naďa Sasáková, PhD.MVDr. Katarína Veszelits Laktičová, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaŽPVLE/GVM-PubVetMed/16	**Course name:** Public veterinary medicine

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 5

Recommended semester of the course study: 3.

Level of study: I.II.

Prerequisites: KaVVP/GVM-LT/16 - Latin terminology

Conditions for completion of the course:
The student has to earn the credit, after taking part at lessons (100 %) as well as lectures (50%).

Learning outcomes of the course:
The result in education is an earning knowledge about the mechanism of both state and public administration, principal function of legislation, creation of the legal rules in the EU. The stress is laid on veterinary care, protection of animals and food hygiene.

Brief outline of the course:
Legal consciousness; how the law is made; specific legal rules in veterinary care, animal protection and food hygiene

Recommended literature:
Takáčová, Vargová, Bodnárová: Public Veterinary Medicine, 2014, ESAP Košice, ISBN 978-80-8077-423-3; Regulations and Directives of the EU

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 65

A	B	C	D	E	FX
13.85	50.77	30.77	4.62	0.0	0.0

Course teachers:
Guarantor of the course: Doc. MVDr. Daniela Takáčová, PhD.
Lecturer: Doc. MVDr. Daniela Takáčová, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaBIOaGEN/GVM-Radiob/11	**Course name:** Radiobiology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 3.

Level of study: I.II.

Prerequisites: KaBIOaGEN/GVM-Biol/16 - Biology and KaChBChBF/GVM-Ch/16 - Chemistry and KaChBChBF/GVM-BiPh/11 - Biophysics

Conditions for completion of the course:
- participation on the all practical lessons
- reports from selected practical lessons

Learning outcomes of the course:

Brief outline of the course:
Radiobiology is the science which researches the effect of all kinds of ionizing radiation on living organisms. It not only deals with harmful effects but with protection against the radiation and prevention against possible disaster as well.

Recommended literature:
Beňová, K., Šmajda, B., Mičková, H., Čipáková, A., 2007: Radiobiology. CD ROM. UVLF, Košice

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 82

A	B	C	D	E	FX
12.2	18.29	36.59	23.17	9.76	0.0

Course teachers:
Guarantor of the course: MVDr. Michaela Špalková, PhD.
Lecturer: MVDr. Michaela Špalková, PhD.
Practical teacher: MVDr. Michaela Špalková, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-MZ/GVM-RadAn/11	**Course name:** Radiographic anatomy
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 1 / 2 **Per study period:** 13 / 26 **Method of study:** present	
Number of credits: 3	
Recommended semester of the course study: 4.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course: 1Credit from the control test: more than 51% 2participation in the exercises 3Exam- Test	
Learning outcomes of the course: Student is able iterpret organs and tissues of fyziological apperance on radiograph based on tissue denzity. Subject is supplying knowledge from anatomy based on comparison of real organs - bone, soft tissue, organs of thoracic and abdominal cavitie.	
Brief outline of the course: Utilize the knowledge of anatomy and learn handling rontgenograms, navigate to the correct interpretation of the pathologically unchanged tissue mainly in dogs and cats. Devoted to the X-ray anatomy of the horse and the locomotive aparatus of horse and cattle distal from the elbow and knee. Proper use of Latin terminology and knoweth to a loss in the interpretation of two-dimensional perpcepcion of rontgenogram	
Recommended literature: 1. Coulson, Lewis . An Atlas of Interpretative Radiographic Anatomy of the Dog and CAT 2.H. Schebitz, H. Wilkens: Atlas of Radiographic Anatomy of Dog and Horse3.Medicine / Veterinary Imaging 3. Dominique Penninck, Marc-André d'Anjou :Atlas of Small Animal Ultrasonography, 2nd Edition. Read an Excerpt Atlas of Small Animal Ultrasonography	
Language of instruction: English	
Notes:	

Evaluation of the course
Total number of evaluated students: 104

A	B	C	D	E	FX
16.35	14.42	28.85	27.88	12.5	0.0

Course teachers:
Guarantor of the course: MVDr. Mária Figurová, PhD.
Lecturer: MVDr. Mária Figurová, PhD.Prof. MVDr. Valent Ledecký, CSc.
Practical teacher: Doc. MVDr. Igor Capík, PhD.MVDr. Marián Hluchý, PhD.MVDr. Mária Kuricová, PhD.MVDr. Slavomír Horňák, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-MZ/GVM-RadImD/11	**Course name:** Radiology and imaging diagnostics
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 1 / 2 **Per study period:** 13 / 26 **Method of study:** present	
Number of credits: 2	
Recommended semester of the course study: 7.	
Level of study: I.II.	
Prerequisites: KaAHF/GVM-Anat I./11 - Anatomy I. and KaAHF/GVM-Anat II. 2/14 - Anatomy II. and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and KaChBChBF/GVM-BiPh/11 - Biophysics	
Conditions for completion of the course: 1.Control test in week 5. 9. and 12: more than 51% success rate 2.participation in the exercises 3. practical and oral exams	
Learning outcomes of the course: Student is able to construct, read and interpret pathological findings on radiograph. Subject advances knowledges of interpetation of phatological anatomy and physiology within limits of radiological study. Technique of contrast study of gastrointestinal and uro system. Some basic knowledge of interpretation ultrasonographic examination.	
Brief outline of the course: General radiology 1. Mission of imaging diagnostic in veterinary medicine 2. X-ray equipment workplace safety regulations 3. Principle of interpretation of radiograms Special radiology - X-ray examination of body systems	
Recommended literature: 1.Ledecký a kol.:Základy rontgenologickej diagnostiky zvierat. 2007 2.H. Schebitz, H. Wilkens: Atlas of Radiographic Anatomy of Dog and Cat. 2005 3.Joe P. Morgan: Techniques of Veterinary Radiology: IOWA State University Press, Davis California 95616, 1986 4.Thrall: Textbook of Veterinary Diagnostic radiology. 2007	
Language of instruction: English	
Notes:	

Evaluation of the course
Total number of evaluated students: 120

A	B	C	D	E	FX
36.67	29.17	15.83	13.33	0.83	4.17

Course teachers:
Guarantor of the course: Prof. MVDr. Valent Ledecký, CSc.
Lecturer: Prof. MVDr. Valent Ledecký, CSc.MVDr. Mária Figurová, PhD.
Practical teacher: Doc. MVDr. Igor Capík, PhD.MVDr. Marián Hluchý, PhD.MVDr. Mária Kuricová, PhD.MVDr. Slavomír Horňák, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-MZ/SSE-RepSA/18	**Course name:** Reproduction of small animals
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 1 / 2 **Per study period:** 13 / 26 **Method of study:** present	
Number of credits: 0	
Recommended semester of the course study: 11.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course: Credit conditions: Practical lessons, 2 missing practices, 1 without compensation Active participation in practical lessons and passing the mandatory program of clinical practice at the clinic	
Learning outcomes of the course: The learning outcomes are verified by state exam. The student has to successfully manage questions related to the reproduction of dogs and cats of both sexes, as well as questions of physiology and pathology of neonates of these species	
Brief outline of the course: The subject provides the theoretical and practical training of students of general veterinary medicine in the field of physiology and pathology of reproduction in dogs and cats. In addition, it deals with the neonatology of these species. A student at the cellular level will understand the mechanisms controlling and affecting the reproductive functions of dogs and cats. He should know the circumstances of the physiology and pathology of puberty, mating, pregnancy, parturition and puerperium. In addition, the student should be able to perform a male and female reproductive examination by clinical and special procedures, diagnose and, in case of irregularities, perform effective therapy and prevention.	
Recommended literature: ENGLAND, Gary and Von HEIMENDAHL, Angelika. BSAVA Manual of Canine and Feline Reproduction and Neonatology. BSAVA, 2010 RIJNBERG and KOOISTRA. 2010. Clinical endocrinology of dogs and cats. Schlutersche, Hannover	
Language of instruction: english language	
Notes:	

Evaluation of the course
Total number of evaluated students: 243

nezap	zap.
0.41	99.59

Course teachers:
Guarantor of the course: MVDr. Ľubica Horňáková, PhD.
Lecturer: MVDr. Ľubica Horňáková, PhD.
Practical teacher: MVDr. Radka Titková

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-MZ/GVM-RepEnd/17	**Course name:** Reproductive endocrinology
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 0 / 2 **Per study period:** 0 / 26 **Method of study:** present	
Number of credits: 3	
Recommended semester of the course study: 10.	
Level of study: I.II.	
Prerequisites: KaAHF/GVM-Phys 2/14 - Physiology and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology	
Conditions for completion of the course: Completing 12 practical lessons	
Learning outcomes of the course: Graduation of the subject provides knowledge at specialist level. A student will be able to determine the stage of the estrous cycle, to detect irregularities and provide breeders the possibility to solve them by using exogenous hormones controlling endogenous mechanisms.	
Brief outline of the course: The subject provides theoretical knowledge and practical knowledge about hormones influencing reproductive functions of domestic animals. A student at the cellular level will understand the mechanisms controlling and affecting the reproductive functions of dogs and cats. In the practical part of the program is focused on folliculogenesis, luteal phase of bitches' oestrus cycle, determine the stage of the estrous cycle of females and consequently its use in mating and the use of hormones in the regulation of the estrous cycle, induction of parturition, lactation and in resolving reproductive disorders.	
Recommended literature: Rijnberg- Kooistra. 2010. Clinical endocrinology of dogs and cats. Schlutersche, Hannover, 338 p . England and Heimendahl. 2010. BSAVA Manual of Canine and Feline Reproduction and Neonatology 2nd Edition	
Language of instruction: english language	
Notes:	

Evaluation of the course
Total number of evaluated students: 6

A	B	C	D	E	FX
50.0	33.33	0.0	16.67	0.0	0.0

Course teachers:
Guarantor of the course: MVDr. Ľubica Horňáková, PhD.
Lecturer:
Practical teacher: MVDr. Ľubica Horňáková, PhD.MVDr. Radka Titková

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaEaP/GVM-RCyn/16	**Course name:** Rescue cynology
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 0 / 2 **Per study period:** 0 / 26 **Method of study:** present	
Number of credits: 2	
Recommended semester of the course study: 4.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course:	
Learning outcomes of the course:	
Brief outline of the course:	
Recommended literature:	
Language of instruction:	
Notes:	
Evaluation of the course Total number of evaluated students: 0	
nezap	zap.
0.0	0.0
Course teachers: Guarantor of the course: MVDr. Peter Smrčo, PhD. Lecturer: Practical teacher: MVDr. Peter Smrčo, PhD.	
Date of last modification: 14.04.2019	
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.	

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/GVM-SkL 1/16	**Course name:** Slovak language

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 1.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
Active participation at the lessons, passing oral testing, passing the final written test

Learning outcomes of the course:
Mastering basic grammar and conversational topics.

Brief outline of the course:
Grammatical part
Conversational Part

Recommended literature:
Ada Bohmerová: Slovak for you, Bratislava, 2006
materials for conversation

Language of instruction:
English language

Notes:
0

Evaluation of the course
Total number of evaluated students: 40

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Mgr. Andrea Eibenová
Lecturer:
Practical teacher: Mgr. Andrea Eibenová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/GVM-SkL 2/16	**Course name:** Slovak language

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 2.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
Active participation at the lessons, passing oral testing, passing the final written tests

Learning outcomes of the course:
Mastering basic grammar and conversational topics.

Brief outline of the course:
Grammatical part
Conversational Part

Recommended literature:
Ada Bohmerová: Slovak for you, Bratislava, 2006
materials for conversation

Language of instruction:
English language

Notes:
0

Evaluation of the course
Total number of evaluated students: 39

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Mgr. Andrea Eibenová
Lecturer:
Practical teacher: Mgr. Andrea Eibenová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/GVM-SkL 3/16	**Course name:** Slovak language

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 3.

Level of study: I.II.

Prerequisites: KaVVP/GVM-SkL 1/16 - Slovak language and KaVVP/GVM-SkL 2/16 - Slovak language

Conditions for completion of the course:
Active participation at the lessons, passing oral testing, passing the final written tests

Learning outcomes of the course:
Mastering basic grammar and conversational topics.

Brief outline of the course:
Grammatical part
Conversational Part

Recommended literature:
Ada Bohmerová: Slovak for you, Bratislava, 2006
materials for conversation

Language of instruction:
English language

Notes:
0

Evaluation of the course
Total number of evaluated students: 40

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Mgr. Andrea Eibenová
Lecturer:
Practical teacher: Mgr. Andrea Eibenová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaVVP/GVM-SkL 4/16	**Course name:** Slovak language

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 2

Recommended semester of the course study: 4.

Level of study: I.II.

Prerequisites: KaVVP/GVM-SkL 1/16 - Slovak language and KaVVP/GVM-SkL 2/16 - Slovak language

Conditions for completion of the course:
Active participation at the lessons, passing oral testing, passing the final written tests

Learning outcomes of the course:
Mastering basic grammar and conversational topics.

Brief outline of the course:
Grammatical part
Conversational Part

Recommended literature:
Ada Bohmerová: Slovak for you, Bratislava, 2006
materials for conversation

Language of instruction:
English language

Notes:
0

Evaluation of the course
Total number of evaluated students: 40

A	B	C	D	E	FX
45.0	35.0	12.5	7.5	0.0	0.0

Course teachers:
Guarantor of the course: Mgr. Andrea Eibenová
Lecturer:
Practical teacher: Mgr. Andrea Eibenová

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-MZ/GVM-SSE-SOSA 1/17	**Course name:** Surgery and orthopaedics of small animals

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 1

Recommended semester of the course study: 10.

Level of study: I.II.

Prerequisites: K-MZ/GVM-GeSAn 2/16 - General surgery and anesthesiology and K-MZ/GVM-RadImD/11 - Radiology and imaging diagnostics and KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology and K-P/GVM-Prop 2/16 - Propedeutics

Conditions for completion of the course:
a. recognized participation in practical exercises b. accepted 2 tests during the term: themes from lectures and practical exercises – 7th, 13th week in each term on lecture 7 th week – Diseases of the oral cavity and teeth. Diseas of the auricle and ear canal. GI 13 th week – Diseases of the respiratory system. Disease of URO-system and eyes. c. for each term met half the prescribed operating procedures in Clinical practice d. graduation and recognition of practical exercises. One missed exercise is tolerated by apology under the Study and Examination Regulations UVLF Košice

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:
1. Fossum: Small Animal Surgery 2. Tobias and Johnson :Small Animal Surgery. 3. Veterinary opthalmology Slatter 4. BVA: Manual of canine and feline muskuloskeletal disorders 5. AO principles of fracture management: Brinker et all.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 113

nezap	zap.
0.88	99.12

Course teachers:
Guarantor of the course: Prof. MVDr. Valent Ledecký, CSc.
Lecturer: Prof. MVDr. Valent Ledecký, CSc.MVDr. Marián Hluchý, PhD.

Practical teacher:
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-MZ/SSE-SOSA 2/18	**Course name:** Surgery and orthopaedics of small animals

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 11.

Level of study: I.II.

Prerequisites: K-MZ/BSc-SSE-SOSA 1/17 - Surgery and orthopaedics of small animals or K-MZ/GVM-SSE-SOSA 1/17 - Surgery and orthopaedics of small animals

Conditions for completion of the course:
a. recognized participation in practical exercises b. accepted 2 tests during the term: themes from lectures and practical exercises – 7th, 13th week in each term on lecture 7 th week – Diseases of the oral cavity and teeth. Diseas of the auricle and ear canal. GIT13 th week – Diseases of the respiratory system. Disease of URO-system and eyes. c. for each term met half the prescribed operating procedures in Clinical practice d. graduation and recognition of practical exercises. One missed exercise is tolerated by apology under the Study and Examination Regulations UVLF Košice

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:
1. Fossum: Small Animal Surgery 2. Tobias and Johnson :Small Animal Surgery. 3. Veterinary opthalmology Slatter 4. BVA: Manual of canine and feline muskuloskeletal disorders 5. AO principles of fracture management: Brinker et all.

Language of instruction:
english

Notes:

Evaluation of the course
Total number of evaluated students: 244

nezap	zap.
0.41	99.59

Course teachers:
Guarantor of the course: Prof. MVDr. Valent Ledecký, CSc.
Lecturer: Prof. MVDr. Valent Ledecký, CSc.MVDr. Marián Hluchý, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaFaT/GVM-Tox/16	**Course name:** Toxicology
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 2 **Per study period:** 26 / 26 **Method of study:** present	
Number of credits: 3	
Recommended semester of the course study: 5.	
Level of study: I.II.	
Prerequisites: KaChBChBF/GVM-BiCh 2/14 - Biochemistry and KaChBChBF/GVM-Ch/16 - Chemistry and KaAHF/GVM-Phys 1/11 - Physiology and KaAHF/GVM-Phys 2/14 - Physiology	
Conditions for completion of the course:	
Learning outcomes of the course:	
Brief outline of the course: GENERAL SECTION Basic concepts in toxicology Absorption, distribution, biotransformation and excretion of toxins Exposure to chemicals The course of poisoning A SPECIAL SECTION Poisoning by inorganic substances Poisoning by organic substances Pesticides Methemoglobinic substances Pathological derivatives of hemoglobin Poisonous plants Toxins of animal origin Mycotoxicoses Toxicity tests The health and environmental risks of chemicals	
Recommended literature: Merck Veterinary Manual; Gupta, R. C.: Veterinary Toxicology: Basic and Clinical Principles, Academic Press, 2007. Plumlee, K.H.: Clinical veterinary toxicology. Mosby, 2004, 491 p., ISBN 0-323-01125-X. Peterson, M.E., Talcott, P.A.: Small Animal Toxicology (Third Edition), 2013, 865 p., ISBN: 978-1-4557-0717-1. Beasley, V.R.: Veterinary toxicology, 2008, http://www.ivis.org/advances/Beasley/toc.asp Kovalkovičová, N.: Lectures in veterinary toxicology, 2015. Kovalkovičová et al.: Guideline of practices in veterinary toxicology, 2014.	

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 63

A	B	C	D	E	FX
28.57	22.22	30.16	17.46	0.0	1.59

Course teachers:
Guarantor of the course: Doc. MVDr. Marcel Falis, PhD.
Lecturer: Doc. MVDr. Marcel Falis, PhD.
Practical teacher: MVDr. Rastislav Sabo, PhD.MVDr. Vladimír Petrovič, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-K/ GVM-TRH/11	**Course name:** Training and rehabilitation of horses

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 3 **Per study period:** 13 / 39
Method of study: present

Number of credits: 2

Recommended semester of the course study: 4.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:
Recommended study literature:
1. William Micklem: Bibliography, Horse Riding Manual, 07 august 2003
2. Hourdebaigt JP: Equine Massage a Practical Guide, Willey Publishing, 2007, p 331
3. Bromiley M.: Equine Injury, Theraphy and Rehabilition, 2007, p 224

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 54

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: MVDr. Vladimír Hura, PhD., MVDr. Michaela Karamanová, PhD.
Lecturer: MVDr. Vladimír Hura, PhD.MVDr. Michaela Karamanová, PhD.
Practical teacher: MVDr. Vladimír Hura, PhD.MVDr. Michaela Karamanová, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaEaP/GVM-TrVetMed/16	**Course name:** Tropical veterinary medicine

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 2

Recommended semester of the course study: 8.

Level of study: I.II.

Prerequisites: KaMBaI/GVM-Mic 2/15 - Microbiology and KaMBaI/GVM-Im/16 - Immunology and KaPAaPF/GVM-PaPhy 2/15 - Pathological physiology

Conditions for completion of the course:
Attendance at lectures 70%; participation on the practical part 100% (in case of illness - documented proof from a doctor, it is possible to justify non-participation in one exercise); Processing seminar work and its presentation visual form - the evaluation of seminar work must be in the range A-E; Credit test - the minimum collected 51 points (out of 100), i.e. 51%; exam - written test (max . total of 100 points): A - 100-90 points; B - 89-80 points; C - 79-70 points; D - 69-60 points; E – 59-51 points.

Learning outcomes of the course:
By completing the course the student will have an overview of the most important infectious and parasitic diseases of animals and humans in tropical and subtropical areas. It should have basic information about the spread of the diseases, diagnosis, prevention and treatment.

Brief outline of the course:
The aim of course is to gain basic theoretical findings of zoonotic infection and parasitic diseases, their distribution and parasite - host relationships of the most important infectious diseases and parasites of farm animals and selected species of wild animals in tropics and subtropics. The aim of the course is to provide basic theoretical knowledge about general regularities of epizootology, infectious and parasitic diseases in tropical and subtropical conditions. Tropical Veterinary Medicine is focused on significant diseases from view of geographical spread, etiology, epizootology, pathogenesis, clinical manifestations, diagnosis, pathological changes, prevention and therapy, respectively. Special attention is dedicated to selected zoonosis and tissue parasites, which are most often found in tropical and subtropical conditions.

Recommended literature:
1. Magill A.J., Ryan E.T., Hill D.R., Solomon T.: Hunter´s Tropical Medicine and Emerging Infectious Diseases. Elsevier Saunders, 2013, 1190 s.
2. Troncy P.M., Itard J., Morel P.C.: Manual of Tropical Veterinary Parasitology, CAB International, 1989, 473 s.
3. Edleston M., Davidson R., Brent A., Wilkinson R.: Oxford Handbook of Tropical Medicine, Oxford Univ. Press, 2008, 126 s.

4. Peters W., Gilles H.M.: Color Atlas of Tropical Medicine and Parasitology, Mosby-Wolfe, 1995, 248 s.

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 2

A	B	C	D	E	FX
0.0	100.0	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: Doc. MVDr. Alica Kočišová, PhD., Doc. MVDr. Anna Ondrejková, PhD.
Lecturer: Doc. MVDr. Alica Kočišová, PhD.Doc. MVDr. Anna Ondrejková, PhD.
Practical teacher: MVDr. Ľuboš Korytár, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-MZ/VetDermSA/18	**Course name:** Veterinary dermatology in small animals

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 3 **Per study period:** 0 / 39
Method of study: present

Number of credits: 3

Recommended semester of the course study: 11.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:
The principal condition for passing the educational programme of the given subject is 100% attendance at all of the sessions. It is allowed to be absent only once during the semester.

Learning outcomes of the course:
The studied subject provides the information about the dermatologic diseases in dogs of various etiology, the most often occuring symptoms, localization and breed predisposition of individual breeds. It allows students to learn about the most accurate diagnostic methods of the given diseases and the possibilities of their differential diagnostics in practice and therapy.

Brief outline of the course:
1. Information on labour safety for students. Principles of clinical diagnosis in dermatology, 2. Viral, rickettsial, and protozoal skin diseases. 3. Fungal skin diseases, 4. Parasitic skin diseases, 5. Hypersensitive skin diseases I, 6. Hypersensitive skin diseases II. 7. Autoimmune skin diseases and immune - mediated dermatoses. 8. Congenital and hereditary defects. Nutritional disorders. 9. Hypothyroidism and hyposomatotropism. 10. Other endocrinopathies with skin manifestation. 11. Pigmentation and keratinization disorders. Physical and chemical causes of the skin diseases. 12. Ear and skin derivates diseases. 13. Skin diseases of cats.

Recommended literature:
MEDLEAU and HNILICA : Small Animal Dermatology- A color atlas and Therapeutic Guide
SCOTT, D.W., MILLER,W.H., GRIFFIN, C.E.: In Muller and Kirk's Small Animal dermatology.5th edition, Philadelphia WB Saunders,
FELDMAN, C., NELSON, R. W.: Canine and Feline Endocrinology and Reproduction,1996

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 10

nezap	zap.
0.0	100.0

Course teachers: Guarantor of the course: Doc. MVDr. Mária Fialkovičová, PhD. Lecturer: Practical teacher: Doc. MVDr. Mária Fialkovičová, PhD.MVDr. Jana Gálová, PhD.
Date of last modification: 14.04.2019
Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaŽPVLE/GVM-SSE-VetLeg/17	**Course name:** Veterinary legislation and forensic veterinary medicine

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 0

Recommended semester of the course study: 9.

Level of study: I.II.

Prerequisites: KaŽPVLE/GVM-AnE/16 - Animal ethology and KaFaT/GVM-Tox/16 - Toxicology and KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaEaP/GVM-Par 2/16 - Parasitology

Conditions for completion of the course:
Participation in at least 50 % lectures and active participation in practical exercises to the extent required by the Students' Regulations of UVLF in Košice, granting the credit.

Learning outcomes of the course:
The aim of the subject is to prepare students for a state examination with an emphasis on assessing the facts of the objects under review (assessing the state of pathological processes, the duties of a veterinary surgeon before the courts, post-mortem changes, etc.) and the proper performance of state administration in the field of infectious and parasitic animal diseases.

Brief outline of the course:
Concept and System of Forensic veterinary medicine, Responsibility of the Veterinary Officer , Judicial Examination, Examination of Material Evidence, Determination of the Condition of Pathological Processes, Postmortal Changes, Procedure of State Administration Bodies in the Veterinary Area in the Occurrence of Selected Infectious and Parasitic Animal Diseases: - the tasks of the chief veterinarian - Obligations of the private veterinarian - Obligations of the breeder.

Recommended literature:
Takáčová et. al: Elements of forensic veterinary medicine. ESAP in UVMPh in Košice, 2012, pp. 182 Takáčová, Vargová, Bodnárová: Public Veterinary Medicine, UVMP Košice, 2014, pp 127 EU legislation regarding Veterinary Care as well as control measures in case of disease outbreak Takáčová, Vargová, Bodnárová: Public Veterinary Medicine, UVMP Košice, 2014, pp 127 EU legislation regarding Veterinary Care, Animals´protection and control measures in case of disease outbreaks

Language of instruction:
EN

Notes:

Evaluation of the course
Total number of evaluated students: 34

nezap	zap.
0.0	100.0

Course teachers:
Guarantor of the course: Doc. MVDr. Daniela Takáčová, PhD.
Lecturer: Doc. MVDr. Daniela Takáčová, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: K-MZ/VetOpht/18	**Course name:** Veterinary ophthalmology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 11.

Level of study: I.II.

Prerequisites: (KaPAaPF/GVM-PaA 2/16 - Pathological anatomy and KaEaP/GVM-Par 2/16 - Parasitology and K-MZ/GVM-GeSAn 2/16 - General surgery and anesthesiology and KaEaP/GVM-Epi 2/16 - Epizootology and K-K/GVM-ObReRD/16 - Obstetrics, reproduction and reproduction disorders and K-MZ/GVM-RadImD/11 - Radiology and imaging diagnostics and K-P/GVM-Prop 2/16 - Propedeutics) or ((K-P/BSc-JSP-Prop 2/16 - Propedeutics or K-P/BSc-Prop 2/16 - Propedeutics) and KaPAaPF/BSc-PaA 2/17 - Pathological anatomy and (KaEaP/BSc-JSP-Par 2/16 - Parasitology or KaEaP/BSc-Par 2/16 - Parasitology) and KaEaP/BSc-Epi 2/17 - Epizootology and K-K/BSc-ObReRD/17 - Obstetrics, reproduction and reproduction disorders and (K-MZ/BSc-JSP-GeSAn 2/16 - General surgery and anaestesiology or K-MZ/BSc-GeSAn 2/16 - General surgery and anaestesiology) and (K-MZ/BSc-JSP-RadImD/16 - Radiology and imaging diagnostics or K-MZ/BSc-RadImD/16 - Radiology and imaging diagnostics))

Conditions for completion of the course:
lectures and practices -100 % presence

Learning outcomes of the course:
student should be able to examine ophthalmic patient according to protocol : basic diagnostic precedures, therapy, treatment; hereditary eye diseases, eye diseasea in small and large animals, surgical techniques in ophthalmology

Brief outline of the course:
Lectures (1 hr per week)
1. Embryology, anatomy and physiology of the eye, eye examination, local and general anesthesia in ophthalmology
2. Clinical pharmacology in veterinary ophthalmology : pharmacology and therapeutics, basic surgical techniques in ophthalmology
3. Diseases of the orbit and eyelids
4. Diseases of the nasolacrimal duct
5. Diseases of the cornea
6. Diseases of the uveal tract
7. Glaucoma
8. Lens
9. Hereditary eye diseases
10. Equine reccurent blindness

11. The most common eye diseases in horses
12. The most common eye diseases in cats
13. The most common eye diseases in exotic animals
Praktické cvičenia (2 hod. týždenne)
1. Basic safety instructions, basic diagnostic techniques in small animals ophthalmology
2. Spetial diagnostic techniques - samples, USG eye examination, local anesthesia, different types of injections
3. Basic ophthalmological diagnostic techniques in horses
4. Surgery of the eyelids – permanent and non – permanent surgical techniques
5. Surgical treatment of trichiasis, distichiaisis, and ectopic cilia
6. Surgery of the 3rd eyelid, surgery of the nasolacrimal system
7. Reconstructive surgery of the eyelids
8. Surgery of the superficial corneal ulcers
9. Surgery of the deep and perforating ulcers
10. Suture of the cornea
11. Keratotomy
12. Fundus examination in healthy and sick dogs and cats
13. Fundus examination in healthy and sick horses

Recommended literature:
Slatter : Fundamental of veterinery ophthalmology
Gelatt: Veterinary ophthalmology

Language of instruction:
english language

Notes:

Evaluation of the course
Total number of evaluated students: 19

A	B	C	D	E	FX
94.74	5.26	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: Prof. MVDr. Alexandra Trbolová, PhD.
Lecturer: Prof. MVDr. Alexandra Trbolová, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: K-MZ/VetStom/18	**Course name:** Veterinary stomatology

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 1 / 2 **Per study period:** 13 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 11.

Level of study: I.II.

Prerequisites:

Conditions for completion of the course:

Learning outcomes of the course:
Basic knowlledge and skills in examination oral cavity, diagnosis and treatmetnof dento - facial diseases.

Brief outline of the course:

Recommended literature:
Harvey CE, Emily PP. Small Animal Dentistry. St. Louis: Mosby-Year Book, 1993

Language of instruction:
English

Notes:

Evaluation of the course
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: Doc. MVDr. Igor Capík, PhD.
Lecturer: Doc. MVDr. Igor Capík, PhD.
Practical teacher:

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaChBChBF/GVM-XenBch/15	**Course name:** Xenobiochemistry

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 0 / 2 **Per study period:** 0 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 5.

Level of study: I.II.

Prerequisites: KaChBChBF/GVM-BiCh 1/11 - Biochemistry and KaChBChBF/GVM-BiCh 2/14 - Biochemistry

Conditions for completion of the course:
1. Participation at seminary lessons 100% . In case of absence (max. 3 times) at a seminary lesson it is necessary to present the topic in the form of seminar work next week or in the credit week. 2. To obtain at least the evaluation of mark E from average of otained points in 8 written tests.

Learning outcomes of the course:
In this subject student will obtain knowledge in biotransformation of endogenous and exogenous xenobiotics. Study subject improves the obligatory subjects Pharmacology and Toxicology in biotransformation reactions some drugs which are converted into non-toxic products eliminated by living organism.

Brief outline of the course:
Xenobiotics, their biotransformation, detoxification,
mechanism of biotransformation reactions,
biotransformation of endogenous xenobiotics,
sources of free radicals in living organism and their function,
oxidative stress,
factors influencing the biotransformation of xenobiotíics,
regulation of biotransformation of xenobiotics,
biotransformation of antibiotics,
biotransformation of sulfonamides,
biotransformation of nitrofurans,
biotransformation of chinolones.

Recommended literature:
Harvey, R.A., Ferrier, D.R.: Lippincott´s Illustrated Reviews: Biochemistry. 5th Edition. Baltimore, Lippincott Wiliams and Wilkins, 2011, 521pp. Nelson, D. L., Cox, M. M.: Lehninger Principles of Biochemistry. 4th Edition. New York : W. H. Freeman and Company, 2005. 1119 pp.

Language of instruction:

English

Notes:

Evaluation of the course
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Course teachers:
Guarantor of the course: Doc. MVDr. Zuzana Kostecká, PhD.
Lecturer:
Practical teacher: Doc. MVDr. Zuzana Kostecká, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice	
Name of faculty:	
Course code: KaBIOaGEN/GVM-Zool/13	**Course name:** Zoology
Form, course-load and method of study: **Form of study:** Lecture / Practical **Recommended course-load (in hours):** **Per week:** 2 / 2 **Per study period:** 26 / 26 **Method of study:** present	
Number of credits: 5	
Recommended semester of the course study: 2.	
Level of study: I.II.	
Prerequisites:	
Conditions for completion of the course: Method of assessment and course study completion: 1. Credit a. participation on lectures and practical courses according to study regulations valid for the given academic year b. preparation and hand-over of protocols from practical courses c. credit test(week 9-th) - achieved number of point required or 51%+ success rate 2. Exam topics: a. according to the study plan - topics covered by lectures and practical courses b. written test(51%+ success rate) Absence(practical lessons) - announced to the head of the course in advance(if applicable) - mail, phone - justified - will be handled in line with study regulations valid for the given academic year - lesson substitution is possible only in the same week(with another study group) - requires approval of the head of the course or the lesson lecturer Attention - substitution is not possible in a case of cumulative practical lessons (ZOO, MUZEUM, AQUA-TERRA)	
Learning outcomes of the course: The aim of the education process is to prepare students for further study at the UVMP. Help them to gain understanding on the importance of animals in human life and help them in orientation in the structure and classification of animal Kingdome.	
Brief outline of the course: Introduction - zoological system (Regnum animale). Terminology and nomenclature. Life development - practical implementation of taxonomy, classification and systematics in zoology. Ranking of species using Systema Naturae 2000. Protozoa - single cell organisms - general characteristic, morphology, life cycle. Classification and ranking protozoa of medical importance. Metazoa - Animalia - multicellular organisms - general characteristics, Porifera-Sponges, Cnidaria-Cnidarians, Myxozoa-Myxozoans - characteristic, morphology, classification and ranking	

Platyhelminthes - Flat worms, Nematoda - Round worms, Acantocephala - Spiny head worms - characteristic, taxonomy, classification and ranking, medical importance and impact on health, Annelida - Ringed worms - characteristic, taxonomy, classification and ranking Mollusca - Molluscs - characteristic, taxonomy, classification and ranking Echinodermata - Echinoders - characteristic, taxonomy, classification and ranking Arthropoda - Arthropods(Pancrustacea - Crustaceans, Chelicerata - Chelicerates) - general characteristic, taxonomy, classification and ranking, economical importance Arthropoda - Arthropods(Insecta - Insects) - general characteristic, anatomy and morphology taxonomy, importance as vectors-transmitters of diseases(viral, bacterial, parasitic), ecology Echinodermata(Echinoderms) - general characteristic. Chordata(Chordates) - general characteristic. Vertebrata - Vertebrates - general characteristic, taxonomy, evolution and phylogenesis. Osteichthyes - Fish - general characteristic, taxonomy, importance, ecology. Amphibia - Amphibians - morphology, general characteristic, taxonomy, importance, ecology Reptilia - Reptiles - morphology, general characteristic, taxonomy Aves - Birds - general characteristic, taxonomy, ecology, breeding and veterinary importance. Mammalia - Mammals - general characteristic, taxonomy, ecology, breeding and veterinary importance. Credit.

Recommended literature:

Literature:
1. Kramer A.: The animal world, vol. 6 Woeld Book, inc., Chicago, ISBN: 0.7166-3226-8, 1992, 159pp.
2. Miller, S.A., Harley, J.P.: Zoology. WCB/McGraw-Hill, USA, ISBN: 0-697-24373-7, 1996, 752pp.
3. Pechnik, J.A.: Biology of Invertebrates. WCB/McGraw-Hill, USA, ISBN: 0-697-13712-0, 1996, 554pp.
4. The Taxonomicon & Systema Naturae 2000 – Internet - http://taxonomicon.taxonomy.nl/
5. National Center for Biotechnology Information(NCBI) database – Taxonomy - Internet - http://www.ncbi.nlm.nih.gov/taxonomy/
6. Internet in general

Language of instruction:

English

Notes:

Name of the course: ZOOLOGY GMV
Form: mandatory
Position in the study program/hours: full-time, daily form, summer semester (2/2e)
Number of credits: 5
Head of the study subject: Martin Tomko, DVM, PhD.

Evaluation of the course

Total number of evaluated students: 85

A	B	C	D	E	FX
7.06	15.29	25.88	25.88	23.53	2.35

Course teachers:

Guarantor of the course: MVDr. Martin Tomko, PhD.
Lecturer: MVDr. Martin Tomko, PhD.MVDr. Michaela Špalková, PhD.
Practical teacher: MVDr. Michaela Špalková, PhD.

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.

COURSE INFORMATION LETTER

Name of university: University of Veterinary Medicine and Pharmacy in Košice

Name of faculty:

Course code: KaEaP/GVM-Zoon/11	**Course name:** Zoonoses

Form, course-load and method of study:
Form of study: Lecture / Practical
Recommended course-load (in hours):
Per week: 2 / 2 **Per study period:** 26 / 26
Method of study: present

Number of credits: 3

Recommended semester of the course study: 10.

Level of study: I.II.

Prerequisites: KaEaP/GVM-Par 2/16 - Parasitology and KaEaP/GVM-Epi 2/16 - Epizootology and KaMBaI/GVM-Im/16 - Immunology and KaMBaI/GVM-Mic 2/15 - Microbiology

Conditions for completion of the course:

Learning outcomes of the course:

Brief outline of the course:

Recommended literature:
Pedro N. Acha and Boris Szyfres: Zoonoses and communicable diseases to man and animals, third edition,Volume I: Bacterioses and Mycoses ,Volume II: Chlamydioses, Rickettioses and Viroses,Volume III: Parasitoses, 2003
Palmer S.R., Lord Soulsby , Torgerson P.R.,Brown David, W.G.: Oxford Textbook of Zoonoses (Biology, Clinical Practice, and Public Health control) , OXFORD University Press, 2011, pp 884

Language of instruction:

Notes:

Evaluation of the course
Total number of evaluated students: 16

A	B	C	D	E	FX
31.25	25.0	18.75	12.5	12.5	0.0

Course teachers:
Guarantor of the course: Doc. MVDr. Anna Ondrejková, PhD., MVDr. Miloš Halán, PhD.
Lecturer: Doc. MVDr. Anna Ondrejková, PhD.MVDr. Miloš Halán, PhD.Prof. MVDr. Mária Levkutová, PhD.Dr. h. c. Prof. MVDr. Jana Mojžišová, PhD.
Practical teacher: Doc. MVDr. Alica Kočišová, PhD.MVDr. Marián Prokeš, PhD.MVDr. Boris Vojtek, PhD.MVDr. Ľuboš Korytár, PhD.MVDr. Karol Račka

Date of last modification: 14.04.2019

Approved by: Tutor Prof. MVDr. Zuzana Ševčíková, PhD.