UNIVERSITY OF ZAGREB
FACULTY OF VETERINARY MEDICINE
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Division: Basic and Pre-clinical Sciences Division
Department / Clinic: Department of Anatomy, Histology and Embryology
Email: martina.duras@vef.hr
Register no.:
File no.:
Zagreb, 30/1/2020

101231	REPUBLIKA HRVATSKA	
Veterinarski fakultet u Zagrebu		
Primljeno:	31.01.2020	
Klasifikacijska oznaka	Org. jed.	
605-03/20-04/10	251-61-32;	
Urudžbeni broj	Prilozi	Vrijednost
251-61-05/317-20-07	0	-

COURSE SYLLABUS

Course name: Anatomy with Organogenesis of Domestic Animals II

Academic year 2019-20

Course leader: Assoc. Prof. Martina Đuras

Teachers: Full Prof. Tajana Trbojević Vukičević

Associate teachers: Mirela Pavić, PhD, DVM, Denis Leiner, DVM, Kim Korpes, DVM, Magdalena Kolenc, DVM

First day of classes: 24/2/2020

Last day of classes: 4/6/2020

Anatomy with Organogenesis of Domestic Animals II

Timetable for LECTURES academic year 2019-2020

LECTURES				
Date	**Methodological unit**	**Teacher**	**Location / time**	**Literature**
24/2/2020	Structure and development of the trunk skeleton	Full Prof. Tajana Trbojević Vukičević	Amphitheatre/ 9-10	KÖNIG, H. E., H.-G. LIEBICH (2007): Veterinary anatomy of domestic mammals, Textbook and color atlas. 3rd Ed. Schattauer, Stuttgart, New York DYCE, K. M., W. O. SACK, C. J. G. WENSING (2010): Textbook of veterinary anatomy. 4th Ed. Saunders Elsevier, Philadelphia. McGEADY, T. A., P. J. QUINN, E. S. FITZPATRICK, M. T. RYAN (2006): Veterinary embryology. Blackwell Publishing, Dublin.
2/3/2020	Structure and development of the mammary gland	Full Prof. Tajana Trbojević Vukičević	Amphitheatre/ 15-16	
4/3/2020	Body wall, body cavities and their serous lining	Full Prof. Tajana Trbojević Vukičević	Amphitheatre/ 13-15	
20/3/2020	Structure and development of the trachea and lungs	Full Prof. Tajana Trbojević Vukičević	Amphitheatre/ 12-13	
24/3/2020	Autonomic nervous system of the trunk Lymphatic system and endocrine tissue of the trunk	Assoc. Prof. Martina Đuras	Amphitheatre/ 10-12	
1/4/2020	Structure and development of the heart	Full Prof. Tajana Trbojević Vukičević	Amphitheatre/ 14-16	
2/4/2020	Blood vessels of the trunk	Full Prof. Tajana Trbojević Vukičević	Amphitheatre/ 13-14	
27/4/2020	Structure and development of the digestive system (Part I)	Assoc. Prof. Martina Đuras	Amphitheatre/ 10-12	
28/4/2020	Structure and development of the digestive system (Part II)	Assoc. Prof. Martina Đuras	Amphitheatre/ 8-10	
13/5/2020	Structure and development of the urinary system	Full Prof. Tajana Trbojević Vukičević	Lecture Room, Department of Physiology and Radiobiology/ 12-14	
14/5/2020	Structure and development of the male genital organs	Assoc. Prof. Martina Đuras	Amphitheatre/ 8-10	
20/5/2020	Structure and development of the female genital organs	Assoc. Prof. Martina Đuras	Amphitheatre/ 14-16	

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Timetable for PRACTICALS academic year 2019-2020

Department of Anatomy, Histology and Embryology=DAHE

PRACTICALS						
Date	Methodological unit	Teacher	Type of practicals	Group	Location / time	Literature
25/2/2020	Thoracic vertebrae	Full Prof. Tajana Trbojević Vukičević Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/14-16	KÖNIG, H. E., H.-G. LIEBICH (2007): Veterinary anatomy of domestic mammals, Textbook and color atlas. 3rd Ed. Schattauer, Stuttgart, New York DYCE, K. M., W. O. SACK, C. J. G. WENSING (2010): Textbook of veterinary anatomy. 4th Ed. Saunders Elsevier, Philadelphia. DONE, S. H., P. C. GOODY, S. A. EVANS, N. C. STICKLAND (2009): Color atlas of veterinary anatomy. Volume 3. The dog and cat. 2nd Ed. Mosby Elsevier, Edinburgh, London, New York. EVANS, H. E., A. de LAHUNTA (2010):
27/2/2020	Lumbar and sacral vertebrae	Full Prof. Tajana Trbojević Vukičević Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/14-17	
28/2/2020	Ribs and sternum	Full Prof. Tajana Trbojević Vukičević Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/9-11	
4/3/2020	Mammary gland	Full Prof. Tajana Trbojević Vukičević Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/10-13	
9/3/2020	Regions of the trunk External fascia of the trunk	Full Prof. Tajana Trbojević Vukičević Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/12-14	
12/3/2020	Muscles of the pectoral girdle	Full Prof. Tajana Trbojević Vukičević Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/14-16	
16/3/2020	Respiratory muscles	Full Prof. Tajana Trbojević Vukičević Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/10-12	
18/3/2020	Thoracic wall and thoracic cavity	Assoc. Prof. Martina Đuras Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/16-18	
19/3/2020	Pectoral cavity and diaphragm	Assoc. Prof. Martina Đuras Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/8-11	
20/3/2020	Pleurae	Assoc. Prof. Martina Đuras Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/8-11	
23/3/2020	Pleural cavities	Assoc. Prof. Martina Đuras Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/14-16	
24/3/2020	Trachea and lungs	Assoc. Prof. Martina Đuras Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/14-16	

25/3/2020	Bronchial tree	Assoc. Prof. Martina Đuras Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/14-17	Guide to the dissection of the dog. 7th Ed. Saunders Elsevier. Philadelphia.
30/3/2020	Cranial mediastinum	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	
31/3/2020	Dorsal and ventral mediastinum	Mirela Pavić, PhD, DVM Magdalena Kolenc, DVM	Dissection	1,2	Dissection Hall, DAHE/14-17	
2/4/2020	Caudal mediastinum	Mirela Pavić, PhD, DVM Magdalena Kolenc, DVM	Dissection	1,2	Dissection Hall, DAHE/14-16	
6/4/2020	Aorta	Mirela Pavić, PhD, DVM Magdalena Kolenc, DVM	Dissection	1,2	Dissection Hall, DAHE/10-12	
8/4/2020	Subclavian artery	Mirela Pavić, PhD, DVM Magdalena Kolenc, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	
14/4/2020	Pericardium	Mirela Pavić, PhD, DVM Magdalena Kolenc, DVM	Dissection	1,2	Dissection Hall, DAHE/16-18	
15/4/2020	Right heart	Mirela Pavić, PhD, DVM Magdalena Kolenc, DVM	Dissection	1,2	Dissection Hall, DAHE/8-11	
16/4/2020	Left heart	Mirela Pavić, PhD, DVM Magdalena Kolenc, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	
28/4/2020	Abdominal muscles	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/12-15	
29/4/2020	Inguinal structures	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/16-19	
30/4/2020	Abdominal and peritoneal cavity	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	
4/5/2020	Omenta	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	
5/5/2020	Simple stomach	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/14-17	
6/5/2020	Composed stomach	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/16-18	
7/5/2020	Intestine of carnivores	Assoc. Prof. Martina Đuras Kim Korpes, DVM	Dissection	1,2	Dissection Hall, DAHE/14-16	
12/5/2020	Intestine of ruminants	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/14-17	
13/5/2020	Intestine of the pig	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	
14/5/2020	Intestine of the horse	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/10-12	

15/5/2020	Liver	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/8-11	
18/5/2020	Pancreas and spleen	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	
19/5/2020	Kidney and ureter	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/16-18	
20/5/2020	Urinary bladder and urethra	Mirela Pavić, PhD, DVM Denis Leiner, DVM	Dissection	1,2	Dissection Hall, DAHE/10-12	
21/5/2020	Scrotum, testicle and epididymis	Full Prof. Tajana Trbojević Vukičević Magdalena Kolenc, DVM	Dissection	1,2	Dissection Hall, DAHE/12-14	
25/5/2020	Deferens duct, male accessory glands and penis	Full Prof. Tajana Trbojević Vukičević Magdalena Kolenc, DVM	Dissection	1,2	Dissection Hall, DAHE/16-18	
26/5/2020	Ovary, oviduct and uterus	Full Prof. Tajana Trbojević Vukičević Magdalena Kolenc, DVM	Dissection	1,2	Dissection Hall, DAHE/14-17	
28/5/2020	Vagina and vulva	Full Prof. Tajana Trbojević Vukičević Magdalena Kolenc, DVM	Dissection	1,2	Dissection Hall, DAHE/10-12	
29/5/2020	Abdominal aorta	Full Prof. Tajana Trbojević Vukičević Magdalena Kolenc, DVM	Dissection	1,2	Dissection Hall, DAHE/10-13	
1/6/2020	Pelvic viscera, vessels and nerves	Full Prof. Tajana Trbojević Vukičević Magdalena Kolenc, DVM	Dissection	1,2	Dissection Hall, DAHE/10-12	
3/6/2020	Muscles of the back	Full Prof. Tajana Trbojević Vukičević Magdalena Kolenc, DVM	Dissection	1,2	Dissection Hall, DAHE/8-10	
4/6/2020	Spine and spinal cord	Full Prof. Tajana Trbojević Vukičević Magdalena Kolenc, DVM	Dissection	1,2	Dissection Hall, DAHE/14-16	

STUDENT OBLIGATIONS

Lecture attendance	The course has 20 hours of lectures. Lecture attendance is graded with 6 points in total. The student has to attend at least 10 hours of lectures (3 points). One hour of lecture (45 minutes) is equal to 0.3 points.
Practicals attendance	The course has 100 hours of practicals. Practical session attendance is graded with 12 points in total. The student has to attend at least 70 hours of practicals (8 points). One hour of practicals (45 minutes) is equal to 0.12 points.
Active participation in practicals	Active participation in the practical session is evaluated through short oral testing during practicals and is graded with 10 points in total. The student has to achieve at least 5 points.
Final exam	Oral exam is graded with 40 points in total. The student has to achieve at least 24 points at the oral exam.
Examination requirements	Student requirements are defined in the Regulations on the Integrated Undergraduate and Graduate Study of Veterinary Medicine. Given the above, the student must acquire a minimum number of points from all assessment elements in order to take the final exam. **Article 45:** a student can justifiably be absent from up to 50 % of the lectures; 30% of the seminars and 30 % of the exercises.

GRADING AND EVALUATING STUDENT WORK

Continuous knowledge-checking (mid-terms)	Written tests are graded with 32 points in total. There are two written tests and the student has to achieve at least 10 points per test.
Final exams (dates)	19/6/2020, 3/7/2020, 7/9/2020, 21/9/2020
Form of final exam	Oral exam is graded with 40 points in total. The student has to achieve at least 24 points at the oral exam.

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LITERATURE

Obligatory literature	KÖNIG, H. E., H.-G. LIEBICH (2007): Veterinary anatomy of domestic mammals, Textbook and color atlas. 3rd Ed. Schattauer, Stuttgart, New York DYCE, K. M., W. O. SACK, C. J. G. WENSING (2010): Textbook of veterinary anatomy. 4th Ed. Saunders Elsevier, Philadelphia. DONE, S. H., P. C. GOODY, S. A. EVANS, N. C. STICKLAND (2009): Color atlas of veterinary anatomy. Volume 3. The dog and cat. 2nd Ed. Mosby Elsevier, Edinburgh, London, New York. EVANS, H. E., A. de LAHUNTA (2010): Guide to the dissection of the dog. 7th Ed. Saunders Elsevier. Philadelphia. McGEADY, T. A., P. J. QUINN, E. S. FITZPATRICK, M. T. RYAN (2006): Veterinary embryology. Blackwell Publising, Dublin.
Optional literature	NICKEL, R., A. SCHUMMER, E. SEIFERLE (1986): The locomotor system of the domestic mammals. Volume I. Verlag Paul Parey, Berlin, Hamburg. NICKEL, R., A. SCHUMMER, E. SEIFERLE (1981): The circulatory system, the skin, and the cutaneous organs of the domestic mammals. Volume III. Verlag Paul Parey, Berlin, Hamburg. EVANS H. E., A. De LAHUNTA (2012): Miller's anatomy of the dog. 4th Ed. WB Saunders Company, Philadelphia, London. SCHALLER, O. (2007): Illustrated veterinary anatomical nomenclature. 2nd Ed. Ferdinand Enke Verlag, Stuttgart. HYTTEL, P., F. SINOWATZ, M. VEJLSTED (2010): Essentials of domestic animal embryology. Saunders Elsevier, Philadelphia. SADLER, T. W. (2006): Langman's medical embryology, Lippincott Williams & Wilkins a Wolters Kluwer business. 10th Ed. Philadelphia, Baltimore, New York.

OBJECTIVES AND LEARNING OUTCOMES

Course objectives	The course presents the gross anatomy of domestic animals with the embryonic development of organs and organic systems to veterinary medicine students in order to ensure basic knowledge for other disciplines such as physiology, pathology and clinical courses.
Learning outcomes	Following successful completion of the course, students will be able to: 1. list and describe major anatomical structures of the trunk including the viscera of domestic mammals 2. explain the development of the viscera 3. apply anatomical nomenclature 4. skilled communicate anatomical information 5. utilize dissection skills

GRADING SCHEME

Points	*Grade*
Up to 59	1 (F)
60-68	2 (E)
69-76	2 (D)
77-84	3 (C)
85-92	4 (B)
93-100	5 (A)

Course leader:

Asocc. Prof. Martina Đuras

Head of Department/Clinic:

Asocc. Prof. Martina Đuras

Note: The course leader is required to submit a Course Syllabus to all teachers and associates pertaining to the Course.