

2020-2021

ANIMAL BREEDS CHARACTERISTICS

UNIVERSITY OF ZAGREB
FACULTY OF VETERINARY MEDICINE
Heinzelova 55
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Department of Animal Breeding and Livestock Production
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Register no.: 61-09-2021-25
Zagreb, February 2nd, 2021



117265	REPUBLIKA HRVATSKA	
Veterinarski fakultet u Zagrebu		
Primljeno:	02.02.2021	
Klasifikacijska oznaka	Org. jed.	
605-03/20-04/25	251-61-17/251-61-32	
Uredžbeni broj	Prilozi	Vrijednost
251-61-09-21-67	0	-

COURSE SYLLABUS

Course name: ANIMAL BREEDS CHARACTERISTICS

Academic year 2020-2021

Course leader: Sven Menčik, PhD, Assistant Professor

Teachers: Velimir Sušić, PhD, Full Professor (permanent)
Anamaria Ekert Kabalin, PhD, Full Professor
Maja Maurić Miljković, PhD, Assistant Professor

Associate teachers: Ivan Vlahek, DMV and Aneta Piplica, DVM

First day of classes: 17th of March 2021.

Last day of classes: 2nd of June 2021.

Timetable for LECTURES academic year 2020-2021

LECTURES				
Date	Methodological unit	Teacher	Location / time	Literature
17/3/2021	Lecture no. 1 Introduction to domestication of animals. Introduction to breeding of most important animal species for production, companion and laboratory animals.	Sven Menčik, PhD, Assistant Professor	On-line MS Teams 10.00-12.00 hrs	Literature list (selected chapters from the books, textbooks and other publications)
18/3/2021	Lecture no. 2 The role of breed in livestock production. General and specific biological characteristics of animals.	Sven Menčik, PhD, Assistant Professor	On-line MS Teams 14.00-16.00 hrs	Literature list (selected chapters from the books, textbooks and other publications)
19/3/2021	Lecture no. 3 Introduction to breeding methods. Breeds of cattle and horses.	Sven Menčik, PhD, Assistant Professor	On-line MS Teams 08.00-10.00	Literature list (selected chapters from the books, textbooks and other publications)
22/3/2021	Lecture no. 4 Breeds of pigs and poultry	Anamaria Ekert Kabalin PhD, Full Professor	On-line MS Teams 07.30-09.00	Literature list (selected chapters from the books, textbooks and other publications)
23/3/2021	Lecture no 5 Breeds of sheep and goats.	Velimir Sušić, PhD, Full Professor	On-line MS Teams 10.00-12.00	Literature list (selected chapters from the books, textbooks and other publications)
12/4/2021	Lecture no. 6 Breeds of dogs and cats.	Anamaria Ekert Kabalin PhD, Full Professor	Department of Animal Breeding and Livestock Production 11.00-13.00 hrs	Literature list (selected chapters from the books, textbooks and other publications)
27/4/2021	Lecture no. 7 – e-learning Most important species of laboratory animals. Rabbits, fur animals, cage pets	Maja Maurić Miljković, PhD, Assistant Professor	e-learning 08.00-10.00 hrs	Literature list (selected chapters from the books, textbooks and other publications)

Timetable for SEMINARS academic year 2020-2021

SEMINARS					
Date	Methodological unit	Teacher	Group	Location / time	Literature
30/3/2021	Seminar no.1 Breeds of cattle and horses	Sven Menčik, PhD, Assistant Professor	1, 2, 3	Department of Animal Breeding and Livestock Production Large computer hall 10.00-12.00 hrs	Literature list Presentations of data from on-line basis available via on-line LMS- VEF platform
31/3/2021	Seminar no. 2 Breeds and hybrids of pigs and poultry	Anamaria Ekert Kabalin PhD, Full Professor	1, 2, 3	Department of Animal Breeding and Livestock Production Large computer hall 10.00-12.00 hrs	Literature list Presentations of data from on-line basis available via on-line LMS- VEF platform
28/4/2021	Seminar no.3 Breeds of dogs	Anamaria Ekert Kabalin PhD, Full Professor	1, 2, 3	Department of Animal Breeding and Livestock Production Large computer hall 14.00-16.00 hrs	Literature list Presentations of data from on-line basis available via on-line LMS- VEF platform
3/5/2021	Seminar no. 4 Breeds of sheep and goat	Velimir Sušić, PhD, Full Professor	1, 2, 3	Department of Animal Breeding and Livestock Production Large computer hall 14.00-16.00 hrs	Literature list Presentations of data from on-line basis available via on-line LMS- VEF platform
17/5/2021	Seminar no. 5, e-learning Animal species and breeds for milk and meat production. Animal species and breeds for wool (fibre) production The importance of autochthonous breeds in livestock production and biodiversity	Sven Menčik, PhD, Assistant Professor	1, 2, 3	e-learning 16.30-18.00 hrs	Literature list Presentations of data from on-line basis available via on-line LMS- VEF platform

Timetable for PRACTICALS academic year 2020-2021

PRACTICALS						
Date	Methodological unit	Teacher	Type of practical	Group	Location / time	Literature
22/3/2021	Practicals no 1 Description of animals (marking and registration of animals)	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	3	Department of Animal Breeding and Livestock Production Small computer hall 10.00-12.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS- VEF platform
22/3/2021	Practicals no 1 Description of animals (marking and registration of animals)	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	1, 2	Department of Animal Breeding and Livestock Production Small and large computer hall 12.00-14.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS- VEF platform
25/3/2021	Practicals no 2 Description of animals (age-sex categories of animals. Introduction to age evaluation of animals)	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	1, 2	Department of Animal Breeding and Livestock Production Small and large computer hall 10.00-12.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS- VEF platform
25/3/2021	Practicals no 2 Description of animals (age-sex categories of animals. Introduction to age evaluation of animals)	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	3	Department of Animal Breeding and Livestock Production Small computer hall 12.00-14.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS- VEF platform
7/4/2021	Practicals no 3 Description of animals (assessment of exterior: colours and signs of horses, identification of horse)	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	1, 2	Department of Animal Breeding and Livestock Production Small and large computer hall 8.00-10.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS- VEF platform

7/4/2021	Practicals no 3 Description of animals (assessment of exterior: colours and signs of horses, identification of horse)	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	3	Department of Animal Breeding and Livestock Production Small computer hall 12.00-14.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS- VEF platform
8/4/2021	Practicals no 4 Description of animals: Assessment of exterior: body measures, scoring systems	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	1, 2	Department of Animal Breeding and Livestock Production Small and large computer hall 12.00-14.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS- VEF platform
9/4/2021	Practicals no 4 Description of animals: Assessment of exterior: body measures, scoring systems	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	3	Department of Animal Breeding and Livestock Production Small computer hall 15.00-16.30 hrs	Prepared written materials of lectures and practicals available via on-line LMS- VEF platform
13/4/2021	Practicals no. 5 Colloquium 1	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	1, 2	Department of Animal Breeding and Livestock Production Small and large computer hall 13.00-15.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS- VEF platform (methodological unit: Lectures no. 1 and 2, as well as practicals 1, 2, 3, and 4)

13/4/2021	Practicals no. 5 Colloquium 1	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	3	Department of Animal Breeding and Livestock Production Small computer hall 15.00-16.30 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform (methodological unit: Lectures no. 1 and 2, as well as practicals 1, 2, 3, and 4)
14/4/2021	Practicals no. 6 Breeds and hybrids of pigs and poultry	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	3	Department of Animal Breeding and Livestock Production Small computer hall 12.00-14.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform
14/4/2021	Practicals no. 6 Breeds and hybrids of pigs and poultry	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	1, 2	Department of Animal Breeding and Livestock Production Small and large computer hall 14.00-16.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform
5/5/2021	Practicals no. 7 Types and breeds of cattle	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	3	Department of Animal Breeding and Livestock Production Small computer hall 8.00-10.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform
7/5/2021	Practicals no. 7 Types and breeds of cattle	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	1, 2	Department of Animal Breeding and Livestock Production Small and large computer hall 15.30-17.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform

10/5/2021	Practicals no. 8 Types and breeds of horses	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	1, 2	Department of Animal Breeding and Livestock Production Small and large computer hall 14.00-15.30 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform
10/5/2021	Practicals no. 8 Types and breeds of horses	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	3	Department of Animal Breeding and Livestock Production Small computer hall 15.30-17.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform
11/5/2021	Practicals no. 9 Types and breeds of sheep and goats	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	3	Department of Animal Breeding and Livestock Production Small computer hall 8.00-10.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform
12/5/2021	Practicals no. 9 Types and breeds of sheep and goats	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	1, 2	Department of Animal Breeding and Livestock Production Small and large computer hall 14.00-16.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform
17/5/2021	Practicals no. 10 Colloquium 2	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	1, 2, 3	Department of Animal Breeding and Livestock Production Small and large computer hall 14.00-16.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform (methodological unit: lecture no. 3, 4 and 5, as well as practicals no. 6, 7, 8 and 9)

18/5/2021	Practicals no. 11 Systematic of breed groups and breeds of dogs.	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	3	Department of Animal Breeding and Livestock Production Small computer hall 10.00-12.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform
19/5/2021	Practicals no. 11 Systematic of breed groups and breeds of dogs.	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	1, 2	Department of Animal Breeding and Livestock Production Small and large computer hall 8.00-10.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform
20/5/2021	Practicals no. 12 Systematics of breed groups and breeds of cats.	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	3	Department of Animal Breeding and Livestock Production Small computer hall 8.00-10.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform
21/5/2021	Practicals no. 12 Systematics of breed groups and breeds of cats.	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	1, 2	Department of Animal Breeding and Livestock Production Small and large computer hall 12.00-14.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform
24/5/2021	Practicals no. 13 Species of laboratory animals and cage pets	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	1, 2	Department of Animal Breeding and Livestock Production Small and large computer hall 12.00-14.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform

25/5/2021	Practicals no. 13 Species of laboratory animals and cage pets	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	3	Department of Animal Breeding and Livestock Production Small computer hall 10.00-12.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform
26/5/2020	Practicals no. 14 Systematic of breed groups and breeds of dogs and cats and species of laboratory animals and cage pets - repetition	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	e-learning	3	Department of Animal Breeding and Livestock Production Small computer hall 16.00-17.30 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform
27/5/2021	Practicals no. 14 Systematic of breed groups and breeds of dogs and cats and species of laboratory animals and cage pets - repetition	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	e-learning	1, 2	Department of Animal Breeding and Livestock Production Small and large computer hall 16.00-17.30 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform
31/5/2021	Practicals no. 15 Colloquium 3.	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	3	Department of Animal Breeding and Livestock Production Small computer hall 8.00-10.00 hrs	Prepared written materials of lectures and practicals Prepared written materials of lectures and practicals available via on-line LMS-VEF platform (methodological unit: lecture no. 6 and 7 as well as practicals no. 11, 12, 13 and 14)

31/5/2021	Practicals no. 15 Colloquium 3.	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	exercises in practicum	1, 2	Department of Animal Breeding and Livestock Production Small and large computer hall 12.00-40.00 hrs	Prepared written materials of lectures and practicals Prepared written materials of lectures and practicals available via on-line LMS-VEF platform (methodological unit: lecture no. 6 and 7 as well as practicals no. 11, 12, 13 and 14)
2/6/2021	Field course – farm visit with multipurpose animal breeds	Teachers / associate teachers within Department of Animal Breeding and Livestock Production	field exercises	1, 2, 3	Family farm Džakula 10.00-16.00 hrs	Prepared written materials of lectures and practicals available via on-line LMS-VEF platform

STUDENT OBLIGATIONS

Lecture attendance	Attending lectures (1 st to 6 th) and e – learning (7 th): a total of 6 points (the lowest number of points that a student should gain from this element is 3 points)
Seminars attendance	Attending seminars: a total of 6 points (the lowest number of points that a student should gain from this element is 4 points). During the seminar, students must do planned seminar thematic unit exercises. Each successful seminar unit brings 0,25 points. During the first to fourth (1 st - 4 th) and fifth (5 th - e-learning) seminar (e-learning), students will again self-check their knowledge based on 12 LMS system questions, at the end of each lesson, according to the thematic units. If successful, each self-check with more than 50% correct answers brings 0,75 points. Students will have a chance to be active participants during every seminar and earn 0,5 points by answering questions orally.
Practicals attendance	Attending practicals: a total of 6 points - the lowest number of points that a student should gain from this element is 4 points. During shift classes students must do 12 planned exercises. If successful, each exercise brings 0,25 points. During the 2 nd to 4 th , 6 th to 9 th and 11 th to 14 th (e-learning) practicals, students will, at the end of each lesson, self-check their knowledge based on 6 questions in LMS system, according to the thematic unit of the practical. Each successful self-check, with more than 50% of correct answers, brings you 0,5 points in activity. Students will have a chance to be active participants during every practical and earn 0,5 points by answering questions orally.
Active participation in seminars and practicals	Students who did not participate in practicals or seminars do not have the right to do a practicals and seminar self-checks. They only have the right to compensate the missed seminar and practicals date. During the term students need to achieve a minimum of 5 points (different combinations in solving programme exercises, self-checks, oral results interpretations / oral exams). The maximum number of points for this grading element is 10.
Final exam	Written: a total of 40 points (the lowest number of points that a student should gain from this element is 24 points)
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)	During the course 3 colloquia will be organised. The first has a total of 12 points and a student should gain at least 58% (7 points), while the other two have 10 points and a student should gain at least 65% (6.5 points). A total of 32 points is possible in this category. The minimum number of credits that a student should gain from this element is 20 points.
Final exams (dates)	Final exam schedule for summer session 2020/2021: 26 th of March 2021 21 st of April 2021 18 th of June 2021 25 th of June 2021 9 th of July 2021 3 th of September 2021 17 th of September 2021
Form of final exam	written

LITERATURE

Obligatory literature	Mason, I. L.: World dictionary of livestock breeds, types and varieties. 5th Edition. CABI Publishing, 2002. Fogle, B.: The new encyclopedia of the dog. Dorling Kindersley Publishing, Inc., 2000. Helgren, A.J.: Encyclopedia of cat breeds. Barrons Educational Series, Inc., 2013. Ward, J.D.: A Manual for laboratory animal management. World Scientific Publishing, 2008.
Optional literature	On-line basis with data about breeds of animals

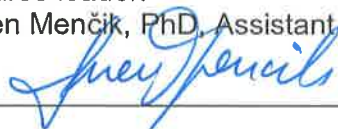
OBJECTIVES AND LEARNING OUTCOMES

Course objectives	The course topics provide the student with knowledge about general animal breed characteristics and animal breeds which are a reflection of genetically specific quality in animals of certain species. Students will be able to evaluate particular animal breed which is important for proper use of animals in different production systems.
Learning outcomes	After successfully finishing the course, student will be able to: <ul style="list-style-type: none">- explain the morphological, physiological and psychological changes of animals after domestication and selection directed to certain characteristics as well as animal breed characteristics (general and special)- identify the species, breed, category and / or production type of domestic animals (cattle, horses, pigs, sheep, goats, donkeys, poultry, dogs, cats and the most important breeds of rabbits, laboratory animals and cage pets)- describe the exterior of certain domestic animals- evaluate production type or breeding group based on individual phenotypic characteristics- use the gained knowledge in judging the exterior, condition, constitution, temperament and age as well as measuring and marking of animals- identify basic administrative books, forms and computer programs used in the registration of domestic animals

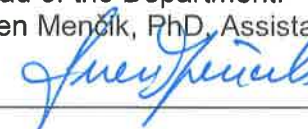
GRADING SCHEME

<i>Points</i>	<i>Grade</i>
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:
Sven Menčik, PhD, Assistant Professor



Head of the Department:
Sven Menčik, PhD, Assistant Professor



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