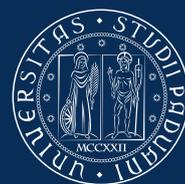




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UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA

# SELF-EVALUATION REPORT

## EAEVE VISITATION, MARCH 2020

# ANNEX





1.

**ANNEX**





### General Information on the Degree Programme

<b>University</b>	University of Padova
<b>Name of Degree in Italian</b>	Medicina veterinaria ( <i>IdSua:1536154</i> )
<b>Name of Degree in English</b>	Veterinary Medicine
<b>Class</b>	LM-42 - Veterinary Medicine
<b>Language of Degree</b>	Italian
<b>Internet address of Degree Course</b>	<a href="http://didattica.unipd.it/didattica/2017/MV0991/2017">http://didattica.unipd.it/didattica/2017/MV0991/2017</a>
<b>Taxes</b>	<a href="http://didattica.unipd.it/2017/tasse_c.pdf">http://didattica.unipd.it/2017/tasse_c.pdf</a>
<b>Delivery</b>	a. Traditional degree programme

### Referent persons and structures

<b>President (or Referent or Coordinator) of the Degree</b>	GIANESELLA Matteo
<b>Collegiate management body of the Degree</b>	Single-cycle degree in Veterinary Medicine
<b>Reference Teaching Structure</b>	Animal Medicine, Production and Health - MAPS

### Reference Professors

No.	SURNAME	NAME	SECTOR	QUALIFICATION	WEIGHT	SSD TYPE
1.	RADAELLI	Giuseppe	VET/01	PO	1	Base
2.	ROMAGNOLI	Stefano	VET/10	PO	1	Characterising
3.	ZAPPULLI	Valentina Elena Giuditta	VET/03	PA	1	Characterising
4.	ZOTTI	Alessandro	VET/08	PA	1	Characterising
5.	BERNARDINI	Marco	VET/09	PA	1	Characterising
6.	BERZAGHI	Paolo	AGR/19	PA	1	Characterising
7.	COZZI	Bruno	VET/01	PO	1	Base
8.	DRIGO	Michele	VET/05	RU	1	Characterising
9.	FALOMO	Maria Elena	VET/10	RU	1	Characterising
10.	FRANCI	Paolo	VET/09	RU	1	Characterising

11.	GIANESELLA	Matteo	VET/08	PA	1	Characterising
12.	GUGLIELMINI	Carlo	VET/08	PO	1	Characterising
13.	IACOPETTI	Ilaria	VET/09	PA	1	Characterising
14.	ISOLA	Maurizio	VET/09	PA	1	Characterising
15.	MOLLO	Antonio	VET/10	PA	1	Characterising
16.	PICCIRILLO	Alessandra	VET/05	RU	1	Characterising
17.	PIETROBELLI	Mario	VET/06	PO	1	Characterising

<b>Student representatives</b>	BARBATO ANGELA angela.barbato.1@studenti.unipd.it CALORE ALESSANDRO alessandro.calore.1@studenti.unipd.it CARCERERI ANDREA andrea.carcereri.1@studenti.unipd.it DONNESCHI ANNA anna.donneschi@studenti.unipd.it FOGLI FEDERICA federica.fogli@studenti.unipd.it PASQUALIN DARIO dario.pasqualin@studenti.unipd.it PAVINATO ALBERTO alberto.pavinato@studenti.unipd.it TILLI GIUDITTA giuditta.tilli@studenti.unipd.it
<b>AQ management group</b>	Chiara Bottaro Alessandro Calore Barbara Carobbi Bruno Cozzi Giuseppe Favaro Matteo Giancesella Flaviana Gottardo Lieta Marinelli Maria Luisa Menandro Alessandra Piccirillo Giuditta Tilli
<b>Tutor</b>	Alessandro ZOTTI Valentina Elena Giuditta ZAPPULLI Mario PIETROBELLI Marco Vincenzo PATRUNO Antonio MOLLO Ilaria IACOPETTI

## The Degree in brief

09/05/20

### Characteristics and Objectives:

The single-cycle Veterinary Medicine degree course proposes high quality training to students, providing them with all the necessary theoretical and practical skills (also thanks to the training activity). The aim is to achieve the skills required to work independently as veterinarians, dedicated to animal health care; to promote animal health and welfare and, consequently, to ensure public health; to ensure food quality and safety. The Veterinary Medicine Degree Course of the University of Padova was approved by EAEVE (European Association of Establishments for Veterinary Education) in 2010 and this evaluation confirms the high standard quality of the educational offer. The course allows for continuation at post-graduate level (PhD, Specialization Schools, Master, High-specialisation courses, etc.).

### Occupational opportunities:

Veterinarians will be able to perform freelance activity work in the National Sanitary Service, the armed forces, public and private industry, in National and International institutions and research bodies.



## SECTOR A1.a

**Consultation with the representative organizations - at national and international level – in charge of the production of goods and services, and responsible of professions (Institution of the course)**

02/02/2017

The local representative organisations of the production of goods and services and of the professions who are involved in the assessment of the correspondence between the training paths and the needs of the area in terms of professional outlets through the presence of stakeholders in the GAVs (groups for accreditation and rating).

The degree course has involved the President of the Veterinary Practitioners Association for the Province of Padova who actively participated in the work of the GAV, in particular, with regards to the preparation of the review and during the informational meetings on the professional world conducted for students.

Starting from the 2014/2015 academic year, the degree course, in collaboration with the School of Agricultural Science and Veterinary Medicine, plans to schedule a meeting with the representative organisations involved in the agricultural and veterinary field. Firstly, there will be a general comparison on the evolution of the demand for training, of the training projects and of the professional profiles and job opportunities, then a deeper analysis for each disciplinary area of the Educational Offer coordinated by the school will follow. The periodicity of the meetings will be established below in order to grasp the change which needs to be answered through coherent and effective planning of the training path.

## SECTOR A1.b

**Consultation with representative organizations - at national and international level - of the production of goods and services, of professions (Further consultations)**

02/02/2017

The national and international representative organisations of the production of goods and services are involved in the evaluation of the correspondence between the training degree and the needs in terms of professional opportunities.

On 24<sup>th</sup> June 2016, a meeting between the Peer Education Commission of the Degree Course in Veterinary Medicine of the University of Padova and stakeholders took place in room 20 of the 1<sup>st</sup> floor of the Cà Gialla Building in Viale Università, 16 - 35020 Legnaro (Pd).

Stakeholders present: Dr. GIANFRANCO FANTON (L.EU.DI.CA), Dr. LORENZO FONTANESI (OPAS), Dr. FRANCESCO FRANCESCHINI (Aulss no. 9 Treviso), Dr. MASSIMO LEONARDI (Tecnozoo SNC),

Dr. FRANCO MUTINELLI (IZSVe), Dr. ERIBERTA ROS (Order of Veterinary Physicians PN, Fnovi Councilor), Dr. GABRIELE RUSSELLO (Order of Veterinary Doctors Pd), Dr. GIAMPIETRO SANDRI (Veronesi Group), Dr. PIERO VIO (Aulss N 12 Veneziana), Dr. MARIA ZANANDREA (ENIC).

After an in-depth presentation of the course of study by the President of the Degree Programme, a fruitful discussion started. On the basis of the experience of those present, professionally involved in the various sectors of Veterinary Medicine, the ways in which the Veterinary Medicine training should be reinforced in the following training areas was shared: Veterinary Bioethics, Organization and Business Economics, Management, Communication, Veterinary Legislation and Professional Deontology, Risk Assessment, Zoognostics, Public Health, problem solving. With regard to Public Health, those present indicated that it is necessary to review the organisation of the current external Traineeship Inspection. This traineeship, which sees the direct involvement of public veterinarians, employed in various veterinary services located in the area, should be reviewed in terms of general organisation, practical/educational contents that must be addressed during the activity itself and verifiability of the objectives expected formulations. Lastly, the members present stressed the need to improve the ability to tackle the professional issues transversally, in a multidisciplinary manner in the specific areas of work of the veterinary surgeon also focusing on group work aptitude.

Pdf attached: [visualize](#)

Pdf description: Consultations with the stakeholders

## SECTOR A2.a

### Professional profile and employment opportunities for graduates

The professional profile that you intend to train is that of the veterinary surgeon

#### Function in a work context:

After completing the qualification examination, the veterinary surgeon will be able to dedicate him/herself to the care and welfare of the animals, prevention of diseases, especially zoonotic, management of herds, control and certification of agro-food chains.

#### Skills associated with the profession:

Graduates in Veterinary Medicine, to perform the functions listed above, need to acquire the following skills during their degree programme:

- ability to detect and critically evaluate the state of health and well-being of the animal at individual, group and population level and by preparing medical and surgical interventions suitable to eliminate the cause of the disease;
- ability to design, implement and control veterinary public health programmes in order to guarantee human health;
- ability to detect and critically evaluate the state of healthiness, hygiene and the quality of food of animal origin;
- ability to manage and control the production chains of food of animal origin and its safety, including fish.

These skills are acquired through a significant "hands-on" training activity carried out during the internship in which the student is directly engaged in practical activities whilst under the supervision of the professor in charge of the subject.

#### Employment opportunities:

The new graduate in Veterinary Medicine can treat animals, put in place plans to prevent diseases, operate to guarantee animal welfare, manage and control the supply chains of food of animal origin and their safety, carry out research in the biomedical field.

These skills can be applied:

- as a freelancer, mainly for diagnosis, treatment and control of animal diseases and zootechnical productions
- in the National Health Service
- in public and private industry
- in public and private research bodies
- in the Armed Forces
- in public and private, national and international institutions (Ministries, EU, ONLUS, NGOs, Natural and zoological parks)

## SECTOR A2.b

### The course prepares for the profession of (ISTAT coding)

1. Veterinarian - (2.3.1.4.0)
2. Researchers and technicians graduated in agricultural, zootechnical and animal production sciences - (2.6.2.2.2)

## SECTOR A3.a

## Knowledge required to access

13/03/2017

To be admitted to the single-cycle degree programme in VETERINARY MEDICINE, the following are required:

- the possession of a high-school diploma or a degree obtained abroad that is recognised as suitable, according to current legislation, for access to university education;
- passing the admission test for access, for which a specific application must be made. The test is managed nationwide and takes place on the same day in all locations.

The number of seats assigned to Padova is decided by the MIUR and may vary from year to year.

The admission test consists of a multiple-choice test with five options for answers, among which the candidate must identify one, discarding the wrong ones on the following topics:

General culture;

Logical reasoning;

Biology;

Chemistry;

Physics and Mathematics.

The number of questions is decided by the MIUR and may change over the years.

100 minutes are normally assigned for the test.

Students who in the admission test have answered incorrectly half plus 1 of the questions of Biology, Chemistry, Physics-Mathematics, will be assigned additional training courses separately for each discipline, to be met in the manner defined in the specific regulations.

## SECTOR A3.b

## Admission procedure

03/05/2017

To be admitted to the single-cycle degree course in VETERINARY MEDICINE, the following are required:

- the possession of a high-school diploma or a qualification obtained abroad that is recognised as suitable, according to current legislation, for access to university education;
- passing the admission test for access to which it is necessary to present a specific application. The test is managed nationwide and takes place on the same day in all locations.

Indications on the administrative modalities of pre-enrolment for the 2017/2018 A.Y can be found at the page indicated in the link

Description of link: Admission notice 2017/2018

Link inserted: <http://www.unipd.it/target/futuri-studenti/come-iscriversi>

SECTOR A4.a

Specific training objectives of the Degree and description of the educational path

05/05/2017

The single-cycle degree course in Veterinary Medicine, in line with the requirements of the European Association of Establishments for Veterinary Education (EEAVE) and a constantly evolving Veterinary Medical profession, aims to provide high quality training to students comprised of the theoretical and practical skills that will allow graduates "to work independently as dedicated veterinarians to:

the care of the animals

the use of innovative methodologies in the field of diagnostics, prophylaxis, therapy and control of animal diseases and zoonoses  
protect the state of health, hygiene and quality of food for the optimisation of animal production and food processing for the protection of animal welfare

the protection and promotion of human health that comes into contact with animals and the environment.

To this end, the single-cycle course in Veterinary Medicine will have to follow a training course that allows them to understand: anatomy and veterinary physiology;

general pathology and the pathological anatomy of animals;

the bases of the phenotypic characters, also as a function of genetic improvement of animals;

nutrition and feeding of animals;

ethological and morpho-functional characteristics of animals;

breeding techniques and management of different animal species;

the peculiarities of the production chain in the various breeding situations;

the causes and pathogenetic mechanisms of diseases and the main reactions of animal organisms in response to them;

knowledge of the pathophysiology, of symptoms, of topography, of diagnostic techniques, also collateral, and of therapy of diseases suitable to provide tools for their diagnosis and treatment;

knowledge relating to veterinary pharmacology and toxicology;

pathophysiological aspects of animal reproduction;

surgical semeiotics, surgical procedures and clinical knowledge;

knowledge necessary to detect and critically evaluate the state of health and well-being of the animal at the individual, group and population level;

company management, communication with the client and other professional figures involved in clinical activity;

knowledge of epidemiology, diagnosis, therapy and prophylaxis of infectious and parasitic diseases of animals aimed at providing the basis for their control with particular reference to zoonoses also of food origin;

the deontology, veterinary legislation and bioethics required to perform the professional activity in the respect of the national and community legislation, for the protection of public health, animal health and welfare, the environment;

production processes and processing of food of animal origin to identify and prevent health risks for human health;

pathological deviations at the macroscopic and microscopic level aimed at the diagnostics and the inspection evaluation of the animals destined to human nutrition;

knowledge of hygiene and technology for food safety and methods for health food inspection.

This educational path, available to all students, is complemented by a training package that the students select from a series of optional courses, each of which is specific to a professional environment.

The educational training is moreover combined with significant "hands-on" training activities, in which the student is directly engaged in practical activities, under the supervision of the teacher in charge of the subject.

For the practical training (exercises and internships), the degree programme avails itself to the Education Veterinary University Hospital (OVUD), the educational laboratories, the university teaching stable and a series of collaborations (contracted services and professors) with external professionals and veterinary facilities (private and public)

SECTOR A4.b.1

**Knowledge and understanding, and ability to apply knowledge and understanding:  
Summary**
**Knowledge  
and  
comprehension  
skills**

The training of the veterinary surgeon guarantees the acquisition by the interested party of the following knowledge and skills:

- a) adequate knowledge of the sciences on which the activities of veterinary surgeons and relevant national and community legislation are based;
- b) adequate knowledge of the anatomy, functions, behaviour and physiological needs of the animals, as well as the skills and competences required for their breeding, feeding, welfare, reproduction and hygiene in general;
- c) clinical, epidemiological and analytical skills and competences necessary for the prevention, diagnosis and treatment of animal diseases, including anaesthesia, aseptic surgery and death without pain, both individually and collectively, as well as a specific knowledge of the diseases transmissible to humans and aspects related to Public Health;
- d) knowledge, skills and competences necessary for the responsible and reasoned use of veterinary medicinal products in order to treat and ensure the safety of the food chain, human health and the protection of the environment;
- e) adequate knowledge, skills and competencies of preventive medicine, including expertise in investigations and certification;
- f) adequate knowledge of hygiene and technology to obtain, manufacture and place on the market animal feed or food products of animal origin intended for human consumption, including skills and skills necessary for understanding and explaining good practices in this area

The methods and teaching tools with which the expected results are achieved and verified are based on the definition of the European Association of Establishments for Veterinary Education (EAEVE).

In particular, knowledge and comprehension skills are acquired through lectures given by the professors of the courses, seminars held by external experts, exercises in the laboratory, classroom and field, technical visits, participation in conferences.

A final exam for each course is used to verify the knowledge acquired and the ability to, and/or through the evaluation of individual or group work carried out by students during the course.

The training of the veterinary surgeon guarantees the acquisition by the interested party of the following knowledge and skills:

- a) adequate knowledge of the sciences on which the activities of veterinary surgeons and relevant national and community legislation are based;
- b) adequate knowledge of the anatomy, functions, behaviour and physiological needs of the animals, as well as the skills and competences required for their breeding, feeding, welfare, reproduction and hygiene in general;
- c) clinical, epidemiological and analytical skills and competences necessary for the prevention, diagnosis and therapy of animal diseases, including anaesthesia, aseptic surgery and painless death, both individually and collectively, as well as a specific knowledge of the diseases transmissible to man and aspects related to Public Health;
- d) knowledge, skills and competences necessary for the responsible and reasoned use of veterinary medicinal products in order to treat and ensure the safety of the food chain, human health and environmental protection.

<b>Knowledge and comprehension skills</b>	<p>e) adequate knowledge, skills and competencies of preventive medicine, including expertise in investigations and certification;</p> <p>f) adequate knowledge of hygiene and technology to obtain, manufacture and place on the market animal feed or food products of animal origin intended for human consumption, including the skills and competences necessary for the understanding and explanation of good practice in this area.</p> <p>These skills are also acquired through significant "hands-on" training activities carried out during the practical-applicative training in which students are directly engaged in practical activities, under the supervision of the professor of the subject and/or veterinary staff of the National Health Service and freelance veterinarians.</p> <p>The ability to apply the knowledge obtained in the different courses is evaluated both within the individual courses and at the end of the study path through the final exam.</p>
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<b>SECTOR A4.b.2</b>	<b>Knowledge and comprehension, and ability to apply them: Details</b>
<b>Learning areas: Basic disciplines</b>	
<b>Knowledge and understanding</b>	
<p>The student must acquire the following knowledge, essential basis to understand all aspects of the life of animals of veterinary interest and in particular:</p> <ol style="list-style-type: none"> <li>1. physics and biochemistry</li> <li>2. biostatistics and risk analysis methodologies</li> <li>3. anatomy, physiology and animal ethology</li> <li>4. zoology, molecular genetics and animal population</li> <li>5. parasitology</li> <li>6. microbiology and immunology</li> <li>7. general pathology</li> <li>8. veterinary bioethics</li> </ol>	
<b>Ability to apply knowledge and understanding</b>	
<p>This knowledge will form the basis for understanding of:</p> <ol style="list-style-type: none"> <li>1. the morphology and functioning of living beings;</li> <li>2. the pathogenesis and pathological deviations of animal organisms referable both to individual organs/apparatuses as well as to the whole organism;</li> <li>3. animal physiopathology;</li> <li>4. application of diagnostic techniques;</li> <li>5. the bases of the phenotypic characters also as a function of the genetic improvement of animals;</li> <li>6. the characteristics of infectious and parasitic agents and of the body's immune response.</li> </ol>	
<p><b>The knowledge and skills are achieved and verified in the following training activities:</b></p> <p><a href="#">See teachings</a></p> <p><a href="#">Closed teachings</a></p>	

VETERINARY BACTERIOLOGY AND VIROLOGY (MOD. A) (*module of VETERINARY MICROBIOLOGY AND IMMUNOLOGY (I.C.)*) [url](#)

VETERINARY PHYSIOLOGY 2 [url](#)

VETERINARY PHYSIOLOGY 1 AND ETHOLOGY [url](#)

GENERAL ZOOTECHNICS AND GENETIC IMPROVEMENT [url](#)

VETERINARY ANATOMY I [url](#)

VETERINARY ANATOMY II [url](#)

VETERINARY MICROBIOLOGY AND IMMUNOLOGY (I.C.) [url](#)

MOLECULAR BIOLOGY (MOD. A) (*module of VETERINARY BIOLOGY, ZOOLOGY AND HISTOLOGY (I.C.)*) [url](#)

VETERINARY BIOLOGY, ZOOLOGY AND HISTOLOGY (I.C.) [url](#)

VETERINARY HISTOLOGY AND EMBRYOLOGY (MOD. B) (*module of VETERINARY BIOLOGY, ZOOLOGY AND HISTOLOGY (I.C.)*) [url](#)

ENGLISH LANGUAGE [url](#)

FINAL TEST [url](#)

EXTERNAL INTERNSHIP [url](#)

INTERNAL INTERNSHIP [url](#)

ZOOLOGY (MOD. C) (*module of VETERINARY BIOLOGY, ZOOLOGY AND HISTOLOGY (I.C.)*) [url](#)

VETERINARY BIOCHEMISTRY [url](#)

VETERINARY IMMUNOLOGY AND SEROLOGICAL DIAGNOSIS (MOD. B) (*module of VETERINARY MICROBIOLOGY AND IMMUNOLOGY (I.C.)*) [url](#)

ANIMAL WELFARE AND VETERINARY PROFESSION [url](#)

### Learning area: Clinic

#### Knowledge and comprehension

The student must acquire and understand the knowledge:

1. necessary to detect and critically evaluate the state of health and welfare of animals as individual subjects, groups and population;
2. of the causes and pathogenetic mechanisms of diseases and of the main reactions of animal organisms in response to them;
3. of veterinary drugs, their mechanism of action, their pharmacokinetics and routes of administration;
4. of pathophysiology, symptoms, topography, diagnostic techniques, including collateral, and of the therapy of diseases designed to provide the tools for their diagnosis and treatment;
5. of the physio-pathological aspects of animal reproduction.
6. of national and Community veterinary legislation
7. of company management, communication with the client and other professional figures involved in clinical activity

#### Ability to apply knowledge and understanding

The veterinarian, as a new graduate, must be able to:

1. prepare suitable clinical interventions to treat diseases;
2. formulate diagnosis, decide the therapy and prevention of diseases;
3. use drugs correctly in the treatment of animal diseases, protecting human health.
4. work in compliance with professional ethics and current legislation
5. know how to manage a private or public veterinary structure from a managerial and organisational point of view and how to communicate with the client and with other professional figures.

These skills will be acquired through theoretical and practical teaching and, in particular, through practical-applicative training, an essential and qualifying activity of the training in which the student is personally involved in professional practice activities, under the supervision of the teachers of the subject.

**The knowledge and skills are achieved and verified thanks to following training activities:**

[See Teaching](#)

**Closed Teachings**

[ANIMAL HUSBANDRY url](#)

[MEDICAL SEMIOTICS AND LABORATORY DIAGNOSTICS url](#)

[VETERINARY PHYSIOLOGY 2 url](#)

[ANIMAL NUTRITION AND ECONOMICS url](#)

[GENERAL PATHOLOGY url](#)

[FINAL TEST url](#)

[EXTERNAL INTERNSHIP url](#)

[INTERNAL INTERNSHIP url](#)

[VETERINARY GENERAL PATHOLOGICAL ANATOMY url](#)

[VETERINARY PHARMACOLOGY AND TOXYCOLOGY url](#)

[OBSTETRICS AND REPRODUCTION PATHOLOGY url](#)

[PARASITOLOGY AND PARASITIC DISEASES \(I.C.\) url](#)

[PARASITOLOGY AND PARASITIC DISEASES 1 \(MOD. A\) \*module of PARASITOLOGY AND PARASITIC DISEASES \(I.C.\)\*](#)

[url](#)

[PARASITOLOGY AND PARASITIC DISEASES 2 \(MOD. B\) \*\(\(module of PARASITOLOGY AND PARASITIC DISEASES \(I.C.\)\)\*](#)

[url](#)

[PATHOLOGY AND SURGICAL SEMIOTICS url](#)

[VETERINARY SPECIAL PATHOLOGICAL ANATOMY url](#)

[DOMESTIC ANIMALS 1 url](#)

[PRODUCTIVE LIVESTOCK 1 url](#)

[ANIMAL WELFARE AND VETERINARY PROFESSION url](#)

[VETERINARY SURGERY url](#)

[DIAGNOSTIC IMAGING \(MOD. B\) \*\(module of MEDICAL PATHOLOGY AND VETERINARY DIAGNOSTIC IMAGING\*](#)

[\(I.C.\)\) url](#)

[MEDICAL PATHOLOGY AND VETERINARY DIAGNOSTIC IMAGING \(I.C.\) url](#)

[ANIMAL INFECTIOUS DISEASES AND AVIAN PATHOLOGY url](#)

[FOOD SANITARY INSPECTION METHODS url](#)

[VETERINARY MEDICAL PATHOLOGY \(MOD. A\) \*\(module of MEDICAL PATHOLOGY AND VETERINARY DIAGNOSTIC\*](#)

[IMAGING \(I.C.\)\) url](#)

[DOMESTIC ANIMALS 2 url](#)

[PRODUCTIVE LIVESTOCK 2 url](#)

[VETERINARY SURGICAL CLINIC url](#)

[REPRODUCTION CLINIC url](#)

[MEDICAL CLINIC AND VETERINARY THERAPY url](#)

**Public health and food security****Knowledge and comprehension**

The student must acquire and understand:

1. epidemiology, diagnosis, therapy and prophylaxis of infectious and parasitic diseases of animals aimed at providing the basis for their control with particular reference to zoonoses also of food origin;
2. deontology, veterinary legislation and bioethics to carry out professional activity in compliance with national and Community legislation, for the purposes of protecting public health, animal health and welfare, the environment;
3. production processes and processing of food of animal origin to identify and prevent health risks to human health;
4. pathological deviations at the macroscopic and microscopic level, aimed at the diagnostics and inspection of animals for human consumption.

**Ability to apply knowledge and understanding**

The student must demonstrate the ability to:

1. design, implement and control the veterinary public health programmes;
2. guarantee a correct interaction between animals and men;
3. guarantee the health of the animal to protect that of man (One Health-One Medicine);
4. guarantee the quality of food of animal origin;
5. detect and critically assess the state of health, hygiene and quality of food of animal origin;
6. manage and control the production chains of food of animal origin and their safety.

These skills will be acquired both through theoretical and practical teaching and, in particular, through practical-applicative training, an essential and qualifying activity of the training in which the student is personally involved in professional practice activities, under the supervision of the teachers of the subject.

**The knowledge and skills are achieved and verified thanks to following training activities:**

[See Teachings](#)

[Closed Teachings](#)

HYGIENE AND SAFETY IN FOOD TECHNOLOGY [url](#)

ANIMAL NUTRITION AND ECONOMICS [url](#)

GENERAL PATHOLOGY [url](#)

PARASITOLOGY AND PARASITIC DISEASES (I.C.) [url](#)

FINAL TEST [url](#)

EXTERNAL INTERNSHIP [url](#)

INTERNAL INTERNSHIP [url](#)

VETERINARY GENERAL PATHOLOGICAL ANATOMY [url](#)

VETERINARY PHARMACOLOGY AND TOXICOLOGY [url](#)

PARASITOLOGY AND PARASITIC DISEASES 1 (MOD. A) (*module of PARASITOLOGY AND PARASITIC DISEASES (I.C.)*) [url](#)

PARASITOLOGY AND PARASITIC DISEASES 2 (MOD. B) (*module of PARASITOLOGY AND PARASITIC DISEASES (I.C.)*) [url](#)

VETERINARY SPECIAL PATHOLOGICAL ANATOMY [url](#)

DOMESTIC ANIMALS 1 [url](#)

PRODUCTIVE LIVESTOCK 1 [url](#)

ANIMAL WELFARE AND VETERINARY PROFESSION [url](#)

ANIMAL INFECTIOUS DISEASES AND AVIAN PATHOLOGY [url](#)

FOOD SANITARY INSPECTION METHODS [url](#)

PUBLIC HEALTH 1 [url](#)

DOMESTIC ANIMALS 2 [url](#)

PRODUCTIVE LIVESTOCK 2 [url](#)

MEDICAL CLINIC AND VETERINARY THERAPY [url](#)

PUBLIC HEALTH 2 [url](#)

## Learning area: Management, breeding and animal productions

### Knowledge and comprehension

The student will have to acquire knowledge on:

1. nutrition and feeding of animals;
2. the ethological and morpho-functional characteristics of pets;
3. the ethological and morpho-functional characteristics of livestock;
4. breeding techniques and management of different animal species;
5. the aspects of the reproduction of animals - both pets and farm animals;
6. the production chain in its various breeding situations.

**Ability to apply knowledge and understanding**

The acquisition of this knowledge will allow the student to obtain the ability to:

1. correctly manage the feeding of animals, both pet and farm animals;
2. correctly manage the whole chain of animal breeding;
3. achieve a correct management/cohabitation of pets, including those owned by private citizens and public or private institutions, for the protection of their well-being, the health of the people who come in contact with them, for the prevention of animal diseases and respect for the environment;
4. adopt breeding systems that allow the correct zootechnical and animal management of animals, for the protection of their well-being, the health of people who come into contact with them, the quality of their products and for the respect of the environment;
5. correctly manage all stages of animal reproduction.

These skills are also acquired through a significant "hands-on" training activity carried out during the practical training in which the student is personally involved in practical activities, under the supervision of the professor in charge of the subject. These activities are performed both at university facilities (for example, Azienda Agricola) and at private companies (breeding companies, kennels, etc.)

**The knowledge and skills are achieved and verified in the following training activities:**

[See teachings](#)

[Close teachings](#)

ANIMAL HUSBANDRY [url](#)

VETERINARY PHYSIOLOGY 1 ED ETHOLOGY [url](#)

HYGIENE AND SAFETY IN FOOD TECHNOLOGY [url](#)

GENERAL ZOOTECHNICS AND GENETIC IMPROVEMENT [url](#)

ANIMAL NUTRITION AND ECONOMICS [url](#)

FINAL TEST [url](#)

EXTERNAL INTERNSHIP [url](#)

INTERNAL INTERNSHIP [url](#)

OBSTETRICS AND REPRODUCTION PATHOLOGY [url](#)

DOMESTIC ANIMALS 1 [url](#)

PRODUCTIVE LIVESTOCK 1 [url](#)

ANIMAL WELFARE AND VETERINARY PROFESSION [url](#)

FOOD SANITARY INSPECTION METHODS [url](#)

PUBLIC HEALTH 1 [url](#)

DOMESTIC ANIMALS 2 [url](#)

PRODUCTIVE LIVESTOCK 2 [url](#)

REPRODUCTION CLINIC [url](#)

MEDICAL CLINIC AND VETERINARY THERAPY [url](#)

PUBLIC HEALTH 2 [url](#)

SECTOR A4.c

**Autonomy of judgment**

**Communication skills**

**Learning skills**

**Autonomy of judgment**

Classroom training is complemented by substantial laboratory and practical teaching activities performed at the University's internal facilities, clinics, veterinary clinics and public institutions, research facilities in Italy and abroad, during which the student can practice the theoretical knowledge acquired during his/her studies. The integration, strengthened by the considerable number of ECTS assigned to the traineeship, between theoretical and practical training, allows the development of the ability to analyse the elements and data collected, thus the development of a critical and interpretive judgment.

During the training period and when discussing his/her dissertation, the student must demonstrate to have understood the basics of the scientific method and its correct application in the professional practice.

The assessment of his/her autonomy of judgment is based on a series of practical experiences that characterises the traineeship, activities in which the student has to show evidence of being able to independently analyse the proposed cases and find a solution independently.

<b>Communicative skills</b>	<p>Graduates must have developed their own appropriate skills and tools for the management and communication of information, both to specialists and non-specialists in the subject and must be able to use fluently, in written and oral form, at least one language of the European Union (English) beyond Italian, with reference also to the disciplinary lexicon.</p> <p>The verification of communication skills takes place through presentations on specific topics in which the student is called to show that he/she has acquired adequate communication skills, as well as during the presentation of the final degree thesis. Furthermore, the acquisition of written and oral communication skills is verified during the exams that the student must pass. Finally, the verification of communication skills takes place under the supervision of the teacher responsible for the traineeship activity in the student / animal owner relationship, student / breeder, student / agro-food entrepreneur. The verification of communication skills in English is the subject of a specific assessment by passing an eligibility test.</p>	
<b>Learning ability</b>	<p>The student must have achieved an adequate operational capacity in the disciplines that characterise the class, which allows him/her to work independently and to assume responsibility in the development and/or original application of ideas, even in a research context. At the end of the training course, the students should have achieved a method of study and learning adequate to continue their studies in the 3rd cycle (research doctorate courses, specialisation schools, advanced training courses, refresher courses, advanced training courses) and to pursue life-long learning.</p> <p>In addition, the necessary knowledge is provided for the use of the main scientific databases and search engines that allow graduates to implement and update their professional background.</p> <p>The expected results are however verified for each teaching through ongoing checks or, in any case, through the final assessment examination.</p>	

## SECTOR A5.a

## Characteristics of final exam

19/01/2017

The degree course in Veterinary Medicine usually lasts five years and corresponds to the achievement of 300 credits (ETCS). It ends with the acquisition of the final exam credits, which consists in the discussion of a written essay structured along the lines of a scientific publication, prepared by the student under the supervision of a supervisor and concerning an original scientific experience related to the topics of Veterinary Medicine.

## SECTOR A5.b

## Final exam modalities

28/04/2017

Final exam regulations

Pdf inserted: [visualise](#)



SECTOR B1

Description of the training path (Degree Regulations)

Pdf inserted: [visualise](#)

Description Pdf: Study plan of the Single-cycle Degree Programme in Veterinary Medicine

SECTOR B2.a

Timetable of the courses of the Degree Programme and training activities

<http://didattica.unipd.it/didattica/2017/MV0991/2017#lezioni>

SECTOR B2.b

Exam calendar

<http://didattica.unipd.it/didattica/2017/MV0991/2017#appelli>

SECTOR B2.c

Final exam calendar sessions

<http://didattica.unipd.it/didattica/2017/MV0991/2017#lauree>

SECTOR B3

Professors responsible of the teachings

The links to the webpages of the University portal dedicated to this information are guaranteed.

N.	Sectors	Year	Teaching	Surname Name	Position	Credits	Hrs	Reference professor for the course
1.	VET/01	Academic Year 1	VETERINARY ANATOMY I <a href="#">link</a>	PERUFFO ANTONELLA	RU	7	40	

2.	VET/01	Acad emic Year 1	VETERINARY ANATOMY I <a href="#">link</a>	COZZI BRUNO	PO	7	70
3.	VET/01	Acad emic Year 1	VETERINARY ANATOMY II <a href="#">link</a>	PATRUNO MARCO VINCENZO	PA	9	90
4.	VET/01	Acad emic Year 1	VETERINARY ANATOMY II <a href="#">link</a>	COZZI BRUNO	PO	9	10
5.	VET/01	Acad emic Year 1	VETERINARY ANATOMY II <a href="#">link</a>	BALLARIN CRISTINA	RU	9	40
6.	CHEM/06 BIO/10	Acad emic Year 1	VETERINARY BIOCHEMISTRY <a href="#">link</a>	VIANELLO FABIO	PA	12	72
7.	CHEM/06 BIO/10	Acad emic Year 1	VETERINARY BIOCHEMISTRY <a href="#">link</a>	TACCIOLI CRISTIAN	PA	12	24
8.	BIO/11	Acad emic Year 1	MOLECULAR BIOLOGY (MOD. A) <i>(module of VETERINARY BIOLOGY, ZOOLOGY AND HISTOLOGY (I.C.))</i> <a href="#">link</a>	TACCIOLI CRISTIAN	PA	4	32
9.	VET/01	Acad emic year o 1	VETERINARY HISTOLOGY AND EMBRYOLOGY (MOD. B) <i>(module of VETERINARY BIOLOGY, ZOOLOGY AND HISTOLOGY (I.C.))</i> <a href="#">link</a>	RADAELLI GIUSEPPE	PO	4	80
10.	BIO/05	Acad emic Year 1	ZOOLOGY (MOD. C) <i>(module of VETERINARY BIOLOGY, ZOOLOGY AND HISTOLOGY (I.C.))</i> <a href="#">link</a>	NEGRISOLO ENRICO MASSIMILIANO	PA	5	8
11.	BIO/05	Acad emic Year 1	ZOOLOGY (MOD. C) <i>(module of VETERINARY BIOLOGY, ZOOLOGY AND HISTOLOGY (I.C.))</i> <a href="#">link</a>	PATARNELLO TOMASO	PO	5	40
12.	VET/05	Acad emic Year 2	VETERINARY BACTERIOLOGY AND VIROLOGY (MOD. A) <i>(module of VETERINARY MICROBIOLOGY AND IMMUNOLOGY (I.C.))</i> <a href="#">link</a>	MENANDRO MARIA LUISA	RU	4	50
13.	VET/02	Acad emic Year 2	VETERINARY PHYSIOLOGY 1 AND ETHOLOGY <a href="#">link</a>	MARINELLI LIETA	PA	12	120

14.	VET/02	Acad emic Year 2	VETERINARY PHYSIOLOGY 1 AND ETHOLOGY <a href="#">link</a>	NORMANDO SIMONA ROSARIA CARLA	RU	12	20
15.	VET/02	Acad emic Year 2	VETERINARY PHYSIOLOGY 1 AND ETHOLOGY <a href="#">link</a>	MONGILLO PAOLO	RU	12	20
16.	PHYS/07 VET/02	Acad emic Year 2	VETERINARY PHYSIOLOGY 2 <a href="#">link</a>	GABAI GIANFRANCO	PO	12	120
17.	AGR/15 VET/04	Acad emic Year 2	HYGIENE AND SAFETY IN FOOD TECHNOLOGY <a href="#">link</a>	ALBERGHINI LEONARDO	RU	9	20
18.	AGR/15 VET/04	Acad emic Year 2	HYGIENE AND SAFETY IN FOOD TECHNOLOGY <a href="#">link</a>	CATELLANI PAOLO	PA	9	80
19.	VET/05	Acad emic Year 2	VETERINARY IMMUNOLOGY AND SEROLOGICAL DIAGNOSIS (MOD. B) <i>(module of VETERINARY MICROBIOLOGY AND IMMUNOLOGY (I.C.))</i> <a href="#">link</a>	PASOTTO DANIELA	RU	4	50
20.	AGR/01 AGR/18 AGR/02	Acad emic Year 2	ANIMAL NUTRITION AND ECONOMICS <a href="#">link</a>	PETTENELLA DAVIDE MATTEO	PO	10	30
21.	AGR/01 AGR/18 AGR/02	Acad emic Year 2	ANIMAL NUTRITION AND ECONOMICS <a href="#">link</a>	BAILONI LUCIA	PO	10	40
22.	AGR/01 AGR/18 AGR/02	Acad emic Year 2	ANIMAL NUTRITION AND ECONOMICS <a href="#">link</a>	VAMERALI TEOFILO	PA	10	30
23.	AGR/17 AGR/17 SECS-S/02	Acad emic Year 2	GENERAL ZOOTECHNICS AND GENETIC IMPROVEMENT <a href="#">link</a>	DRIGO MICHELE	RU	11	20
24.	AGR/17 AGR/17 SECS-S/02	Acad emic Year 2	GENERAL ZOOTECHNICS AND GENETIC IMPROVEMENT <a href="#">link</a>	CARNIER PAOLO	PO	11	90
25.	AGR/19 AGR/20	Acad emic Year 3	ANIMAL HUSBANDRY <a href="#">link</a>	BERZAGHI PAOLO	PA	8	50

Academic

26.	AGR/19 AGR/20	Year 3	ANIMAL HUSBANDRY <a href="#">link</a>	DALLE ZOTTE ANTONELLA	PO	8	30
27.	VET/03	Acad emic Year 3	VETERINARY GENERAL PATHOLOGICAL ANATOMY <a href="#">link</a>	CASTAGNARO MASSIMO	PO	5	50
28.	VET/03	Acad emic Year 3	VETERINARY GENERAL PATHOLOGICAL ANATOMY <a href="#">link</a>	MAZZARIOL SANDRO	RU	5	30
29.	VET/07	Acad emic Year 3	VETERINARY PHARMACOLOGY AND TOXYCOLOGY <a href="#">link</a>	DACASTO MAURO	PO	9	90
30.	VET/07	Acad emic Year 3	VETERINARY PHARMACOLOGY AND TOXYCOLOGY <a href="#">link</a>	GIANTIN MERY	PA	9	20
31.	VET/10	Acad emic Year 3	OBSTETRICS AND REPRODUCTION PATHOLOGY <a href="#">link</a>	MOLLO ANTONIO	PA	4	100
32.	VET/06	Acad emic Year 3	PARASITOLOGY AND PARASITIC DISEASES 1 (MOD. A) <i>(module of PARASITOLOGY AND PARASITIC DISEASES (I.C.))</i> <a href="#">link</a>	FRANGIPANE DI REGALBONO ANTONIO	PA	4	40
33.	VET/06	Acad emic Year 3	PARASITOLOGY AND PARASITIC DISEASES 2 (MOD. B) <i>((module of PARASITOLOGY AND PARASITIC DISEASES (I.C.))</i> <a href="#">link</a>	PIETROBELLI MARIO	PO	5	50
34.	VET/06	Acad emic Year 3	PARASITOLOGY AND PARASITIC DISEASES 2 (MOD. B) <i>((module of PARASITOLOGY AND PARASITIC DISEASES (I.C.))</i> <a href="#">link</a>	FRANGIPANE DI REGALBONO ANTONIO	PA	5	10
35.	VET/06	Acad emic Year 3	PARASITOLOGY AND PARASITIC DISEASES 2 (MOD. B) <i>((module of PARASITOLOGY AND PARASITIC DISEASES (I.C.))</i> <a href="#">link</a>	CASSINI RUDI	RU	5	10
36.	VET/09	Acad emic Year 3	PATHOLOGY AND SURGICAL SEMIOTICS <a href="#">link</a>	IACOPETTI ILARIA	PA	6	60
37.	VET/03	Acad emic Year 3	GENERAL PATHOLOGY <a href="#">link</a>	CASTAGNARO MASSIMO	PO	6	60
		Academic	MEDICAL SEMIOTICS AND	GERARDI			

38.	VET/08	Year 3	LABORATORY DIAGNOSTICS <a href="#">link</a>	GABRIELE	RU	6	30
39.	VET/08	Academic Year 3	MEDICAL SEMIOTICS AND LABORATORY DIAGNOSTICS <a href="#">link</a>	POSER HELEN	RU	6	10
40.	VET/08	Acad emic Year 3	MEDICAL SEMIOTICS AND LABORATORY DIAGNOSTICS <a href="#">link</a>	COPPOLA LUIGI MICHELE	RU	6	10
41.	VET/08	Acad emic Year 3	MEDICAL SEMIOTICS AND LABORATORY DIAGNOSTICS <a href="#">link</a>	ZINI ERIC	RU	6	10
42.	VET/08	Acad emic Year 3	MEDICAL SEMIOTICS AND LABORATORY DIAGNOSTICS <a href="#">link</a>	MORGANTE MASSIMO	PO	6	50

## SECTOR B4

## Classrooms

Pdf inserted: [visualise](#)

Description Pdf: Classroom  
map

## SECTOR B4

## Laboratories and IT classrooms

Pdf inserted: [visualise](#)

## SECTOR B4

## Study rooms

Pdf inserted: [visualise](#)

Description Pdf: Study rooms at the Agripolis Campus

## SECTOR B4

## Libraries

Link inserito: <http://bibliotecadigitale.cab.unipd.it/biblioteche/I.C.s.-di-agripolis-biblioteca-pietro-arduino>

SECTOR B5

Inbound orientation

05/05/2017

The University of Padova's Orientation Service targets as privileged interlocutors upper secondary school students, school professors, parents and workers willing to restart or deepen their studies. Through the Orientation Service, the University of Padova supports all of them in the degree programme choice.

The University offers online materials to help students know the world of the university, the degree courses and the possible occupational opportunities. It organises specific initiatives in order to encourage students to build their own project, familiarise with the University's environment, prepare for the entrance exam. The Orientation Service is the Schools' interlocutor for the co-planning of School-Work Pathways (Law 107/2015).

The staff welcomes students and gives information during the opening hours of the information point, but there is also an online platform available where students can book individual orientation or re-orientation interviews. The staff also organises informative events such as the "Scegli con noi il tuo domani" - "Choose your future with us" days (where professors and tutors from the University's Schools give information on all degree courses), orientation courses and laboratories, open days, summer weeks and information meetings on accessing to University. Online, students can also find a brief guided course - useful for the degree course choice.

The Orientation Service also provides services in collaboration with other Italian institutes which work on orientation, educational success promotion and dispersion prevention.

<http://www.unipd.it/come-orientarsi-studi>

<http://www.unipd.it/servizi/supporto-studio/orientamento-counseling/iniziativa-orientamento>

Information point: Riviera T. Livio, 6 Padova, Monday - Friday: 10.00am - 1.00pm; Tuesday and Thursday: also 3.00pm - 4.30pm (email: [orienta@unipd.it](mailto:orienta@unipd.it))

Online platform (Skype): [orientamento.sedepadova](mailto:orientamento.sedepadova) (email: [flash.orienta@unipd.it](mailto:flash.orienta@unipd.it))

The School of Agricultural Sciences and Veterinary Medicine organises orientation visits to the teaching structures upon request from Italian upper secondary schools. The School agrees to the visits with the Study Course Council President and the reference professors for School Orientation - who are also available to give information on the learning objectives and other specific aspects of the degree courses.

A presentation video for the Agripolis campus was created.

Students can find specific information on the courses on the School of Agricultural Sciences and Veterinary Medicine website, via the following link: <http://agrariamedicinaveterinaria.unipd.it/corsi-di-laurea>

Support services for people with disabilities and learning disabilities

In collaboration with the reference professors, the Disabilities and Dyslexia Service organises orientation meetings - individual and family interviews - in order to help people with disabilities and learning disabilities choose the study course which most suits their needs and professional expectations.

With regard to entrance exams, candidates with disabilities and learning disabilities can request to conduct them according to individualised modalities, such as additional time allocation, use of specific aids or a writing support. <http://www.unipd.it/disabilita>

SECTOR B5

On-going Orientation and Tutoring

05/05/2017

Through the University of Padova's Right to Study and Tutoring Service, the University supports students at all stages. It welcomes students and offers them organisational and study support activities, and, when necessary, reorientation support on the degree programme choice made when enrolled.

The aim is to:

- support the approach with the new study rhythms and responsibilities, facilitating the student's introduction to the University's environment, suggesting organisational methods to follow classes in a productive way. Such support is provided by tutors, who are students and doctoral and specialisation graduating students who help other people enrolled in their university career, supporting them in the study and giving them information;
- offer a reserved support and spaces in which students can identify and face potential learning problems emerging from their choices, maybe inadequate in relation to their personal abilities.

Right to Study and Tutoring Service

Website: <http://www.unipd.it/tutorato> Telephone: 049 827 5031

Information point: via Portello 31, 35129 Padova, by appointment

Email: [servizio.tutorato@unipd.it](mailto:servizio.tutorato@unipd.it)

Tutors' office hours at the study courses: <http://www.unipd.it/servizi/supporto-studio/tutorato/contatti-ricevimenti-tutor>

The Orientation Service also offers reorientation interviews to students who are already enrolled and have doubts on the choice made.

Orientation Service (for individual reorientation and second-cycle degrees orientation interviews)

Website: <http://www.unipd.it/incontri-individuali-di-orientamento-e-ri-orientamento>

Information point: Riviera T. Livio, 6 Padova, Monday - Friday: 10.00am - 1.00pm; Tuesday and Thursday: also 3pm - 4.30pm

Email: [orienta@unipd.it](mailto:orienta@unipd.it)

In collaboration with the University's Schools, the Orientation Service also organises open days for second-cycle degree courses. The educational offer is presented by some professors and Presidents of the degree courses.

Students are also offered a psychological support service which helps and supports the University's students in their personal and university career issues. This service is currently organised in three different levels, according to the students' needs and kind of support.

Website: <http://www.unipd.it/servizi/supporto-studio/servizi-aiuto-psicologico>

The School of Agricultural Sciences and Veterinary Medicine organises tutoring activities for the degree programmes which it coordinates in collaboration with the tutoring reference professors. In particular, tutors support students, study groups and working students. Agripolis tutors provide information about the educational offer of the study courses coordinated by the School of Agricultural Sciences and Veterinary Medicine, supporting students in the completion of the study plans and the campus's specific forms.

Information point: Edificio Ca' Gialla - 2° floor - viale dell'Università, 16, 35020 Legnaro (Padova)

Telephone: 049 827 2544-2605

Email: [tutor.agrariamedicinaveterinaria@unipd.it](mailto:tutor.agrariamedicinaveterinaria@unipd.it)

Skype address: [tutorjunior.amv](https://www.skype.com/user/tutorjunior/amv)

Students can find the information point's opening hours and the necessary documentation on the School of Agricultural Sciences and Veterinary Medicine website: <http://www.agrariamedicinaveterinaria.unipd.it/scuola/contatti/tutorato>

Support services for students with disabilities and learning disabilities

Besides ongoing orientation and tutoring services for all students, the Disabilities and Dyslexia Service offers an introduction to university studies specifically designed for students with physical and learning disabilities. For students who attend the first and second academic year, the service is available on request; afterwards, it can be available by assessment. This support is mainly aimed at accompanying the student through the transition from upper secondary school to university, with individual modalities which take into consideration the person's needs.

Website: <http://www.unipd.it/disabilita>

Telephone: 049.8275038

Information point: via Portello 23, 35129 Padova, Monday - Friday from 8.30am to 5.30pm

Mail: [serv.disabilita@unipd.it](mailto:serv.disabilita@unipd.it); [dislessia@unipd.it](mailto:dislessia@unipd.it)

Skype address: [disabilita.unipd](https://www.skype.com/people/disabilita.unipd) (on specific request)

## SECTOR B5

## Support for the Development of External Training Periods (Internships)

05/05/2017

Through the Internship and Career Service, the University of Padova promotes internships in Italy and abroad, at companies, public and professional institutions.

During the academic year 2015/16, 21,256 internships took place, including 528 abroad.

In particular, the Service supports companies/institutions and students/graduates through the company's needs analysis for the definition of the profile needed, the resumes assessment, the supply-demand match and the administrative support in the Training Project and Agreement preparation.

Firstly, the Internship and Career Service supports student and graduate mobility and internationalisation by providing funding of various kinds: EU, national and regional such as Erasmus+, MIUR, the Italian Ministry of Education, Universities and Research, among others. The Service provides scholarships and supports interns in the administrative practices.

Secondly, the Service monitors the internships activated through assessment questionnaires sent both to the company tutor and the intern (Internship Monitoring Centre). The answers are analysed in order to monitor satisfaction, job offers, the skills used and lacking and potential criticism or areas of improvement. The aggregated data properly elaborated are distributed to the University's Schools.

Lastly, as a promoter and partner, the Service is involved in a number of European and Italian projects aimed at facilitating student mobility and employability.

<http://www.unipd.it/stage>

Telephone: 049 827 3075

Information Point: Riviera T. Livio, 6 Padova, Monday - Friday: 10.00 - 13.00; Tuesday and Thursday: also 3pm - 4.30pm  
[stage@unipd.it](mailto:stage@unipd.it)

Internships take place at external institutions contracted with the University, where the student conducts practical activities which enrich the learning process and facilitate future professional choices. The internship's achievements are managed by the competent University's Service, in collaboration with the Study Course Internship Commission which gives support and assesses the results.

A specific information point for the Internship and Career Service is available at the Agripolis campus to give students support and information.

Information point: Ca' Gialla Building - 2° piano - Viale dell'Università, 16, 35020 Legnaro, Padova

Telephone: 049 827 2519 Fax: 049 827 2529

Support services for students, graduating students and graduates with disabilities

Not only can students with disabilities participate in information meetings and seminars for internships organised by the Internship Career Service, but they can also request the Disabilities and Dyslexia Service for a meeting to receive information on the internship opportunities as required by Italian Law 68/1999 ("Employment for Disabled People").

The Disabilities and Dyslexia Service staff is also available on appointment for an interview to assess the student's specific needs and plan the essential aids in order to enable the student to be autonomous during the internship activities development, also abroad.

Webiste: <http://www.unipd.it/disabilita>

Telephone: 049.8275038

Information point: via Portello 23, 35129 Padova, Monday - Friday from 8.30am - 5.30pm

Email: [serv.disabilita@unipd.it](mailto:serv.disabilita@unipd.it); [dislessia@unipd.it](mailto:dislessia@unipd.it)

Skype address: [disabilita.unipd](https://www.skype.com/people/disabilita.unipd) (on specific request)

SECTOR B5

Support and Agreements for Student International Mobility

*For each connected foreign university, it is necessary to indicate the agreement which regulates student mobility and if a release of a double or multiple title is expected for mobility students. If the release of a double or multiple title with the foreign university is not expected (e.g. in case of agreements for the Erasmus mobility), it is necessary to indicate "Only Italian" in the title to show that these students will only obtain the normal title released by the university of origin.*

*Study courses which release a double or multiple title with a foreign university turn out to be international in accordance with the Ministerial Decree 1059/13.*

Through the International Relations Service, the University of Padova activates and manages student mobility either in the context of bilateral agreements (at a University level or Department level), which include the mutual exchange of students, or in the context of EU funded programmes, such as the Erasmus+. The mobility is enhanced and supported both through the release of scholarships and the support in the administrative practices: from the contact with the foreign institution and the international study plan elaboration, to the recognition of exams conducted abroad and the offer of foreign languages courses.

Website: <http://www.unipd.it/target/studenti/esperienze-internazionali>

Telephone: 049 827 3056

Information point: Via VIII Febbraio, 2 (Palazzo Bo, Piano terra), 35122 Padova, Monday - Friday: 10.00am - 1.00pm; Tuesday and Thursday: also 3.00pm - 4.30pm

Email: [relazioni.internazionali@unipd.it](mailto:relazioni.internazionali@unipd.it)

The School of Agricultural Sciences and Veterinary Medicine supports the Study Course for the activities relating to international mobility. It also relies on a collaborator who manages and supports the administrative aspects required by the welcoming of incoming students and outgoing students on their return.

The collaborator's role turns out to be essential considering that the University, located at the Agripolis campus, offers services to students on site.

#### Contacts

Telephone: 049 827 2538 Fax: 049 827 2529

Email: [erasmus.agripolis@unipd.it](mailto:erasmus.agripolis@unipd.it)

#### Support services for students with learning disabilities

To promote the participation of students with disabilities or learning disabilities in the international mobility programmes (such as Erasmus+, Bilateral Agreements, and others), the Disabilities and Dyslexia Service organises specific information meetings and supports students in contacting hosting foreign universities for the definition and organisation of the aids and services needed during the stay in the country of destination. It also helps the student with disabilities in the request to the LLP/Erasmus Italian Agency for specific funding to cover the costs connected to the student's disability needs in the context of the university and everyday life during the stay abroad.

Website: <http://www.unipd.it/disabilita>

Telephone: 049.8275038

Information point: via Portello 23, 35129 Padova, Monday - Friday from 8.30am to 5.30pm

Email: [serv.disabilita@unipd.it](mailto:serv.disabilita@unipd.it); [dislessia@unipd.it](mailto:dislessia@unipd.it)

Skype address: [disabilita.unipd](https://www.skype.com/people/disabilita.unipd) (on specific request)

Erasmus Decentred Services at the School of Medicine and Surgery promote the Erasmus experience and are a valid reference point for incoming and outgoing Erasmus students, in collaboration with the International Relations Service. They provide incoming and outgoing students with useful information on universities abroad and the School of Medicine and Surgery. They offer a practical support for the administrative documentation concerning international mobility and the necessary forms completion.

They also assist professors in the mobility flows asset management, activation of new agreements, management of teaching-

related student practices.

*No University*

SECTOR B5

Entering the Workplace

05/05/2017

The University of Padova also conducts work intermediation activities in implementation of Biagi Law 30/2003. The service is addressed to graduates and students from the University of Padova who are either looking for first jobs or new job opportunities and to companies who are looking for professional profiles to include in their organisation.

The work supply-demand match develops through a series of activities:

Analysis of the company's needs to define the profile needed;

Cv assessment;

Selection interview with candidates;

Supply-demand match;

Presentation of a shortlist of suitable candidates to the company.

For this purpose, the University also provides:

Job orientation activities which consist of a number of (free) seminars per year developed in two days for graduating students and graduates from the University of Padova;

Laboratories and workshops for the development of transversal skills for students and graduates;

Individual consultations, a service of free consultancy for students and graduates from the University which enables them to have personal suggestions on cv writing, addresses finding, to gain information on the employment environment, but also assessment skills, i.e. the elaboration of a professional project for job active research;

Career Days; the placement service organises two days in May and November where companies meet students and graduates, but also speed dates between companies and professors from the University of Padova;

Company presentations and assessment day at university;

Local Employment Monitoring Centre: sectoral analyses of the skills needed for interviews with entrepreneurs and human resource managers; selection of professional profiles and the skills needed for the analyses of the job offers included in the job placement platform.

For further information: [www.unipd.it/placement](http://www.unipd.it/placement)

Telephone: 049 827 3075

Information point: Riviera T. Livio, 6 Padova, Monday - Friday: 10.00am - 1.00pm; Tuesday and Thursday: also 3.00pm - 4.30pm

[placement@unipd.it](mailto:placement@unipd.it)

The School of Agricultural Sciences and Veterinary Medicine maintains contacts with the labour market, organising periodic meetings with professional associations and soft-skills seminars.

The initiatives are available on the following link: <http://agrariamedicinaveterinaria.unipd.it/news/tid/6>

## Support services for graduating students and graduates with disabilities

Besides participating in information meetings and seminars for job placement opportunities organised for all students, graduating students and graduates with disabilities can request the Disabilities and Dyslexia Service for an interview to assess their specific needs in relation to the job placement opportunities published on the Internship and Career Service's job placement window.

They can also request the Disabilities and Dyslexia Service for job orientation interviews, information on targeted placement as required by Law 68/1999 ("Employment for Disabled People") and access the related job offers which companies periodically present to the Service.

Web site: <http://www.unipd.it/disabilita>

Telephone: 049.8275038

Office: via Portello 23, 35129 Padova, Monday and Friday from 8.30 to 17.30

E-mail: [serv.disabilita@unipd.it](mailto:serv.disabilita@unipd.it); [dislessia@unipd.it](mailto:dislessia@unipd.it)

Skype: [disabilita.unipd](https://www.skype.com/people/disabilita.unipd) (on specific request)

SECTOR B5

Initiatives

SECTOR B6

Students' opinions

11/09/2017

Link: [https://apex.cca.unipd.it/pls/apex/f?p=266:7:::NO::P7\\_CDS,P7\\_SEDE\\_SIGLA:MV0991,LE](https://apex.cca.unipd.it/pls/apex/f?p=266:7:::NO::P7_CDS,P7_SEDE_SIGLA:MV0991,LE)

SECTOR B7

Graduates' opinions

30/09/2014

Link:

[https://apex.cca.unipd.it/pls/apex/f?p=144:32:4263179242382354::NO::P32\\_CODICIONE,P32\\_COD\\_CDS,P32\\_CODICE\\_SEDE,P32\\_](https://apex.cca.unipd.it/pls/apex/f?p=144:32:4263179242382354::NO::P32_CODICIONE,P32_COD_CDS,P32_CODICE_SEDE,P32_)



SECTOR C1	Entry data, route and exit data
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30/09/2014

Link: [https://apex.cca.unipd.it/pls/apex/f?p=144:6:4263179242382354::NO::P6\\_CDS,P6\\_SEDE:MV0991,LE](https://apex.cca.unipd.it/pls/apex/f?p=144:6:4263179242382354::NO::P6_CDS,P6_SEDE:MV0991,LE)

SECTOR C2	External efficacy
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30/09/2014

Link: [https://apex.cca.unipd.it/pls/apex/f?p=144:32:4263179242382354::NO::P32\\_CODICIONE,P32\\_COD\\_CDS,P32\\_CODICE\\_SEDE,P32\\_](https://apex.cca.unipd.it/pls/apex/f?p=144:32:4263179242382354::NO::P32_CODICIONE,P32_COD_CDS,P32_CODICE_SEDE,P32_)

SECTOR C3	Opinions bodies and companies with internship / curricular or extra-curricular internship agreements
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22/09/2017

Internships and traineeships are useful tools for the integration of university education and their improvement is one of the priorities of the School.

In particular, for the single-cycle degree in Veterinary Medicine, the internship consists of practical and applicative activities performed by the student in first person (hands-on), essential for the training of the future Veterinarian and for the maintenance of EA EVE certification. In the meeting held in June 2016 among the joint teaching committee of the single-cycle degree in Veterinary Medicine and the stakeholders (stakeholders), a shared satisfaction of the professional world was highlighted in relation to the increased level of training practice of the current new graduates. In addition to the purely educational aspect, this practical training activity has seen in recent years an intensification of collaborations with various offices, institutions and professionals outside the university world, allowing the student to have direct contact with the labour market on one hand, and on the other hand, with the possibility of opening the university premises to external professionals, thanks to teaching contracts.

Pdf inserted: [visualise](#)

Pdf description: OPINIONE DI AZIENDE/ENTI CHE HANNO OSPITATO STAGE E TIROCINI: A.A. 2015/16



## SECTOR D1

## Organizational structure and responsibility at the University level

04/05/2017

The Statute of the University of Padua identifies the teaching structures in the Departments and in the University Schools for connecting structures.

The course of Veterinary Medicine belongs to the Department of ANIMAL MEDICINE, PRODUCTIONS AND HEALTH and is coordinated in the School of Agriculture and Veterinary Medicine.

In the School of Agriculture and Veterinary Medicine in the A.Y. 2016/2017 19 the following courses were activated:

8 bachelor degrees

9 master degrees

1 Single-cycle degree

1. Inter-university master degree with administrative headquarter at the University of Udine.

In the context of the activities implemented for Quality Assurance (AQ), the University of Padua agreed to establish the University System for Teaching Quality and Accreditation - SADA divided into three bodies corresponding to the three levels of the academic organization (central, peripheral, basic).

At central level the University Presidium is established for the quality of Training and Education (PAQD) chaired by the Rector or delegate:

#### A. Functions and duties

Promote and build a culture of evaluation aimed at improving and enhancing quality levels in the University

Exercises fundamental technical-political functions

Promote, organize, coordinate and monitor the activities of teaching evaluation and improvement

Support, coordinate and monitor the procedures for the QA, updating of information for the SUS of the Degree Course and the activity of the Review

Ensure the correct information flow to and from the NdV, the Departments and the Joint Commissions

Evaluate the effectiveness of improvement interventions

Promotes and coordinate educational innovation initiatives, experimentation, evaluative research and teaching support also from an international perspective

#### B. Composition

Rector or delegate

Pro rectors or Delegates of the Rector of the involved sectors (Education and Evaluation)

8 Professors identified by the Department Directors' Council (1 Professor per School)

1 representative of the Schools of Specialization indicated by the Observatory for postgraduate specialistic training

1 representative of the Doctoral Schools indicated by the same

2 student representatives indicated by the Student Council 1 Director of the educational area

The PAQD shall report periodically to the Academic Senate and the Board of Directors to allow these bodies to take the measures they deem appropriate.

On a peripheral level, the Joint Teaching Commission of the University School (CPDS) was established as an intermediate level body:

#### A. Functions and duties

It operates at School level (Article 54 of the University Statute) for the qualification of the results achieved by the Degree Courses in relation to the training objectives and occupational and professional prospects connected to the economic and production system

It provides evaluations and makes proposals on the results of the Degree Course, with reference to the students' opinions. It proposes and launches study and analysis activities regarding the organizational conditions and the improvement of the training service provided by the Departments through the Schools

It, annually, prepares a report on the previous academic year in which it expresses evaluations and formulates proposals to the School for the improvement of the Degree Courses Councils, to be sent to the Academic Senate, the Evaluation Team (NdV) and the PAQD

#### A. Composition

The Peer Commission of the School of Agriculture and Veterinary Medicine is composed of a professor for each Department part of the School (7) and the President of the School of Agriculture and Veterinary Medicine plus 8 elected students.

The members of the Peer Commission are neither Course Presidents nor members of the GAV, in order not to create conflict between the bodies.

At grassroot level, the University System for the Quality of Teaching and Accreditation - SADA – foresees the establishment of a Group for Accreditation and Evaluation (GAV).

The general study support services, with the exception of international mobility, are guaranteed by the offices of the Educational Area. Support services for the development of international collaboration programmes and agreements both for double titles, joint degrees and international mobility are guaranteed by the International Relations Service.

At the School level, front office services are organized through the Tutor junior service and thanks to the staff belonging to the School for support in completing study plans, especially for working students, and in the organization of orientation activities.

Pdf inserted: [visualise](#)

Pdf description: Organigramma di Ateneo 2017

## SECTOR D2

### Organization and responsibility of the AQ at Degree Programme level

04/05/2017

In terms of degree programme, the University System for the Quality of Teaching and Accreditation - SADA – foresees the establishment of a Group for Accreditation and Evaluation (GAV).

#### A. Functions and duties

It is a basic body of the degree programme, in charge of continuous improvement activities and procedures for accreditation. It guides and oversees the management of the SUA- Degree Programme form and the annual activities of the Review

It prepares the Monitoring Report to be approved by the Degree Programme Council

It identifies the improvement and innovation interventions related to the quality of teaching, training and service in the Degree Programme Board

It identifies the improvement and innovation interventions related to the quality of teaching, training and services.

#### A. Composition decided by the

University

Degree Programme President

6 referent professors for the evaluation

2 student representatives  
1 stakeholders representatives

## SECTOR D3

## Planning of work and deadlines for implementing initiatives

04/05/2017

- The planning of the activities and the definition of the deadlines for the implementation of the actions foreseen by the AQ shall be carried out according to the Italian Ministerial Decree issued by the Italian Ministry of Education, according to the ANVUR indications and the actions deliberated by the relevant University bodies.
- The following activities are already planned:
- Encourage participation in the Erasmus programme (meetings were held with the students and with the Flow Managers in the months of January and February 2017);
- Annual Monitoring Report (autumn 2017)
- Improve the flow of information through meetings with students and referent professors of the year;
- Verification of the educational contents / Syllabus in line with the training objectives defined by the recent change of university system;
- Continue the process of improving the quality of teaching material;
- Correct information on the labour market (meetings are being held with students and veterinary surgeons on various aspects related to the profession);
- Relationships with the professional world (meetings are under way for the creation of a technical table of the Venetian veterinary profession);
- Specialization schools (in progress their reactivation).

## SECTOR D4

## Annual review

The University of Padova has defined the presence of a GAV for each single degree programme. At the beginning of October, the University statistical service provided the GAV with the statistical information and student opinions. The GAV prepared a part of the Report (concerning the activities carried out in the initial review report) for the Peer Commissions of the Schools by the end of November. The Commissions, in turn, produced their report by the end of December, provided subsequently to the GAV as support for the drafting of the Review Report.

The Review Report was approved by the respective Boards, by the reference Departments and brought to the attention of the Schools. The dates of the GAV meetings and the dates of approval of the Review Report are contained within the document in the appropriate section.

Pdf inserted: [visualise](#)

Pdf description: Annual Review Report

## SECTOR D5

## Design of the Degree Programme

## SECTOR D6

## Other documents deemed useful to motivate the activation of the degree programme



## General information on the Degree Programme

<b>University</b>	University of Padova
<b>Name of Degree in Italian</b>	Medicina veterinaria
<b>Name of Degree in English</b>	Veterinary Medicine
<b>Class</b>	LM-42 – Veterinary Medicine
<b>Language of Degree</b>	Italian
<b>Internet address of Degree Programme</b>	<a href="http://didattica.unipd.it/didattica/2017/MV0991/2017">http://didattica.unipd.it/didattica/2017/MV0991/2017</a>
<b>Taxes</b>	<a href="http://didattica.unipd.it/2017/tasse_c.pdf">http://didattica.unipd.it/2017/tasse_c.pdf</a>
<b>Delivery</b>	a. Traditional degree programme

## Inter-university courses

*This field must be completed only for inter-university courses*

*A course is called "inter-university" when the participating universities stipulate a convention aimed at regulating directly the objectives and training activities of a single course of study, which is activated jointly by the universities involved, with one of the universities that (also in turn) follows the administrative management of the course. The universities involved further agree on the part of the teachings that is activated by each one and on the release to all registered students of a joint degree (through the provision of a double degree).*

*An inter-university course may involve only Italian universities, or Italian and foreign universities. In this last case the course of studies is international according to the Italian Ministerial Decree 1059/13.*

*Study courses provided in full by an Italian university, even in the case of agreements with one or more foreign universities which, regulating essentially international student mobility programmes (usually as exchange programmes), foresee the awarding of a degree issued also by the foreign universities, but are not inter-university courses. In this case the relative conventions should not be inserted here but in the field "Assistance and agreements for international student mobility" of the SECTOR B5 of the SUA-CdS. For inter-university courses, the universities involved must be indicated in this field and the convention that regulates, among other things, the subdivision of the training activities of the course between them must be inserted.*

Any action in this field is configured as a change of system. If on the SUA-CdS form of the A.Y. 14-15 agreements not related to inter-university courses have been inserted, these conventions must be moved to the field "Assistance and agreements for international student mobility" of SECTOR B5. If no other change is made to the system, it is sufficient to indicate in the field "Communications from the University to the CUN" the information that this change is the only order modification carried out this year to ensure the automatic approval by the CUN.

No agreements with universities

## Referents and Structures

<b>President (or Referent or Coordinator) of the DP</b>	GIANESELLA Matteo
<b>Collegial management body of the degree course</b>	Single-cycle Degree course Council in Veterinary Medicine
<b>Reference teaching structure</b>	ANIMAL MEDICINE, PRODUCTIONS AND HEALTH - MAPS

## Reference Professors

N.	SURNAME	NAME	SECTOR	QUALIFICATION	WEIGHT	SSD TYPE	Teaching assignment
1.	RADAELLI	Giuseppe	VET/01	PO	1	Base	1. VETERINARY HISTOLOGY AND EMBRYOLOGY (MOD. B)
2.	ROMAGNOLI	Stefano	VET/10	PO	1	Characterizing	1. REPRODUCTION CLINICS (CLINICAL)
3.	ZAPPULLI	Valentina Elena Giuditta	VET/03	PA	1	Characterizing	1. PATHOLOGICAL ANATOMY APPLIED TO FOOD SAFETY 2. VETERINARY SPECIAL PATHOLOGICAL ANATOMY (CLINICAL)
4.	ZOTTI	Alessandro	VET/08	PA	1	Characterizing	1. VETERINARY MEDICAL CLINIC (CLINICAL)
5.	BERNARDINI	Marco	VET/09	PA	1	Characterizing	1. VETERINARY SURGICAL CLINIC (CLINICAL)
6.	BERZAGHI	Paolo	AGR/19	PA	1	Characterizing	1. ANIMAL HUSBANDRY
7.	COZZI	Bruno	VET/01	PO	1	Base	1. VETERINARY ANATOMY I 2. VETERINARY ANATOMY II 3. VETERINARY SURGERY
8.	DRIGO	Michele	VET/05	RU	1	Characterizing	1. EPIDEMIOLOGY AND CONTROL OF FOOD-BORNE ZOOLOGICAL ZOOSES

9.	FALOMO	Maria Elena	VET/10	RU	1	Characterizing	1. REPRODUCTION CLINIC (CLINICAL)
10.	FRANCI	Paolo	VET/09	RU	1	Characterizing	1. VETERINARY SURGICAL CLINIC (CLINICAL)
11.	GIANESELLA	Matteo	VET/08	PA	1	Characterizing	1. VETERINARY MEDICAL CLINIC (CLINICAL) 2. VETERINARY LEGISLATION AND MEDICAL PATHOLOGY
12.	GUGLIELMINI	Carlo	VET/08	PO	1	Characterizing	1. VETERINARY LEGISLATION AND MEDICAL PATHOLOGY
13.	IACOPETTI	Ilaria	VET/09	PA	1	Characterizing	1. PATHOLOGY AND SURGICAL SEMIOTICS
14.	ISOLA	Maurizio	VET/09	PA	1	Characterizing	1. VETERINARY SURGERY 2. VETERINARY SURGICAL CLINIC (CLINICAL)
15.	MOLLO	Antonio	VET/10	PA	1	Characterizing	1. OBSTETRICS AND REPRODUCTION PATHOLOGY
16.	PICCIRILLO	Alessandra	VET/05	RU	1	Characterizing	1. AVIAN PATHOLOGY (CLINICAL)
17.	PIETROBELLI	Mario	VET/06	PO	1	Characterizing	1. PARASITOLOGY AND PARASITIC DISEASES 2 (MOD. B)

teaching requirement (number and type) verified successfully!!

teaching requirement (number and type) verified successfully!

### Student Representative

SURNAME	NAME	EMAIL	PHONE
BARBATO	ANGELA	angela.barbato.1@studenti.unipd.it	
CALORE	ALESSANDRO	alessandro.calore.1@studenti.unipd.it	
CARCERERI	ANDREA	andrea.carcereri.1@studenti.unipd.it	
DONNESCHI	ANNA	anna.donneschi@studenti.unipd.it	
FOGLI	FEDERICA	federica.fogli@studenti.unipd.it	
PASQUALIN	DARIO	dario.pasqualin@studenti.unipd.it	
PAVINATO	ALBERTO	alberto.pavinato@studenti.unipd.it	
TILLI	GIUDITTA	giuditta.tilli@studenti.unipd.it	

## AQ Management Group

SURNAME	NAME
Bottaro	Chiara
Calore	Alessandro
Carobbi	Barbara
Cozzi	Bruno
Favaro	Giuseppe
Gianesella	Matteo
Gottardo	Flaviana
Marinelli	Lieta
Menandro	Maria Luisa
Piccirillo	Alessandra
Tilli	Giuditta

## Tutor

SURNAME	NAME	EMAIL
ZOTTI	Alessandro	
ZAPPULLI	Valentina Elena Giuditta	
PIETROBELLI	Mario	
PATRUNO	Marco Vincenzo	
MOLLO	Antonio	
IACOPETTI	Ilaria	

## Access Planning

National Planning (art.1 Italian Law 264/1999)	Si - Posti: 71
Local Planning (art.2 Italian Law 264/1999)	No

## Locations

**DM 987 12/12/2016** Attachment A - teaching requirements

<b>Location of programme: LEGNARO</b>	
Starting date of course	09/10/2017
Student no.	71



### Other information

<b>Internal code of the course</b>	MV0991^2017^000ZZ^028044
<b>Maximum number of recognizable credits</b>	0 DM 16/3/2007 Art 4 <i>Nota 1063 del 29/04/2011</i>

### Reference resolutions dates

Approval date of the educational structure	04/11/2016
Approval date of the Academic Senate/ Administration Board	07/02/2017
Date of the NdV's technical report	16/01/2008
Date of discussion with organizations representing production, services and professions at a local level	24/06/2016 -
Date of the positive opinion of the Regional Coordination Committee	

The redesign of the Degree Programme was performed within a strict framework of coordination, direction and pre-evaluation conducted at University level. The University adopted, with its own binding guidelines, more stringent reference criteria than those defined at national level (see <http://www.unipd.it/nucleo/relazioni/index.htm>).

The Degree Programme, core of the Faculty of Veterinary Medicine, has always shown a high attractiveness and limited drop-out rates. The redesign aims to improve the regular competition of the training path and to improve the interaction between students and professors and the operational world by strengthening the traineeship.

The NVA confirms that the Degree Programme is proposed by a Faculty that has sufficient teaching facilities and meets the teaching requirements thanks to the human resources available within it. According to the current legislation, this Degree Programme is closed in number. The proposal is adequately motivated and the training objectives that inspired the redesign are clearly formulated, in line with the European standards. The NVA therefore expresses a favourable opinion on the proposal.

## Evaluation Unit Report for the Accreditation

*The complete Evaluation report necessary for the accreditation procedure of the degree course must be inserted in the appropriate space within the SUA-CdS file called "Evaluation Unit Report for Accreditation" by March 31<sup>st</sup> 2017 for the newly created courses and by the expiry of the SUA survey for all other courses. The report of the Unit can be drawn up following the evaluation criteria, summarized below, detailed in the ANVUR guidelines for the initial accreditation of the newly activated Degree Programmes, which can be consulted on the ANVUR website.*

[Guidelines for courses non-online](#)

[Guidelines for online courses](#)

1. *Reasons for the planning/activation of the degree programme*
2. *Analysis of the training request*
3. *Analysis of the competence levels and expected learning outcomes*
4. *Student's experience (Analysis of the modalities adopted to ensure that the performance of the training activities and the results of the Degree Programme are consistent with the objectives and are correctly managed with respect to quality criteria with a strong commitment to collegiality on the part of the teaching body)*
5. *Resources foreseen*
6. *Quality Assurance*

## Summary of the opinion of the regional coordination committee

## Teaching offer provided

CUIN cohort	teaching	Sector s teaching	professor	sector professor	hrs assisted teaching
1 2017 191706189	<b>ANIMAL HUSBANDRY</b> <i>six-month course</i>	AGR/19 AGR/20	<b>Reference Professor</b> Paolo BERZAGHI <i>Confirmed Associate Professor</i>	AGR/19	50
2 2017 191706189	<b>ANIMAL HUSBANDRY</b> <i>six-month course</i>	AGR/19 AGR/20	Antonella DALLE ZOTTE <i>Ordinary Professor (L. 240/10)</i>	AGR/20	30
3 2014 191700493	<b>PATHOLOGICAL ANATOMY APPLIED TO FOOD SAFETY</b> (module of VETERINARY SPECIAL PATHOLOGICAL ANATOMY (FOOD SAFETY)) <i>six-month course</i>	VET/03	<b>Reference Professor</b> Valentina Elena Giuditta ZAPPULLI <i>Confirmed Associate Professor</i>	VET/03	32
4 2017 191706190	<b>VETERINARY GENERAL PATHOLOGICAL ANATOMY</b> <i>six-month course</i>	VET/03	Massimo CASTAGNARO <i>Ordinary Professor</i>	VET/03	50
5 2017 191706190	<b>VETERINARY GENERAL PATHOLOGICAL ANATOMY</b> <i>six-month course</i>	VET/03	Sandro MAZZARIOL <i>Confirmed Researcher</i>	VET/03	30
6 2014 191700495	<b>SPECIAL PATHOLOGICAL ANATOMY AND CADAVERIC DISGNOSTICS OF PETS</b> (module of VETERINARY SPECIAL PATHOLOGICAL ANATOMY (CLINICAL)) <i>six-month course</i>	VET/03	Laura CAVICCHIOLI <i>Confirmed Researcher</i>	VET/03	32
7 2014 191700497	<b>VETERINARY SPECIAL PATHOLOGICAL ANATOMY (CLINICAL)</b> (module of VETERINARY SPECIAL PATHOLOGICAL ANATOMY (CLINICAL)) <i>six-month course</i>	VET/03	<b>Reference Professor</b> Valentina Elena Giuditta ZAPPULLI <i>Confirmed Associate Professor</i>	VET/03	50

8	2017	191706203	<b>VETERINARY ANATOMY I</b>	VET/01	<b>Reference Professor</b> Bruno COZZI <i>Ordinary Professor</i>	VET/01	<b>70</b>
9	2017	191706203	<b>VETERINARY ANATOMY I</b>	VET/01	Antonella PERUFFO <i>Confirmed Researcher</i>	VET/01	<b>40</b>
10	2017	191706204	<b>VETERINARY ANATOMY II</b>	VET/01	<b>Reference Professor</b> Bruno COZZI <i>Ordinary Professor</i>	VET/01	<b>10</b>
11	2017	191706204	<b>ANATOMIA VETERINARIA II</b>	VET/01	Cristina BALLARIN <i>Confirmed Researcher</i>	VET/01	<b>40</b>
12	2017	191706204	<b>VETERINARY ANATOMY II</b>	VET/01	Marco Vincenzo PATRUNO <i>Confirmed Associate Professor</i>	VET/01	<b>90</b>
13	2017	191706195	<b>VETERINARY BACTERIOLOGY AND VIROLOGY (MOD. A)</b> (module of VETERINARY MICROBIOLOGY AND IMMUNOLOGY (I.C.)) <i>six-month course</i>	VET/05	Maria Luisa MENANDRO <i>Confirmed Researcher</i>	VET/05	<b>50</b>
14	2017	191707659	<b>VETERINARY BIOCHEMISTRY</b>	CHEM/06 BIO/10	Cristian TACCIOLI <i>Associate Professor (L. 240/10)</i>	BIO/11	<b>24</b>
15	2017	191707659	<b>VETERINARY BIOCHEMISTRY</b>	CHEM/06 BIO/10	Fabio VIANELLO <i>Confirmed Associate Professor</i>	BIO/10	<b>72</b>
16	2017	191706207	<b>MOLECULAR BIOLOGY (MOD. A)</b> (module of VETERINARY BIOLOGY, ZOOLOGY AND HISTOLOGY (I.C.))	BIO/11	Cristian TACCIOLI <i>Associate Professor (L. 240/10)</i>	BIO/11	<b>32</b>
17	2014	191700499	<b>VETERINARY SURGERY</b> <i>six-month course</i>	VET/09 VET/01	<b>Reference Professor</b> Bruno COZZI <i>Ordinary Professor</i>	VET/01	<b>40</b>
					<b>Reference</b>		

<b>18</b>	2014	191700499	<b>VETERINARY SURGERY</b> <i>six-month course</i>	VET/09 VET/01	<b>Professor</b> Maurizio ISOLA <i>Confirmed</i> <i>Associate</i> <i>Professor</i>	VET/09 <b>60</b>
<b>19</b>	2014	191700499	<b>VETERINARY SURGERY</b> <i>six-month course</i>	VET/09 VET/01	Giulia Maria DE BENEDICTIS <i>Confirmed</i> <i>Researcher</i>	VET/09 <b>32</b>
<b>20</b>	2013	191700056	<b>VETERINARY SURGICAL CLINIC (CLINICAL)</b> <i>six-month course</i>	VET/09	<b>Reference</b> <b>Professor</b> Marco BERNARDINI <i>Confirmed</i> <i>Associate</i> <i>Professor</i>	VET/09 <b>24</b>
<b>21</b>	2013	191700056	<b>VETERINARY SURGICAL CLINIC (CLINICAL)</b> <i>six-month course</i>	VET/09	<b>Reference</b> <b>Professor</b> Paolo FRANCI <i>Confirmed</i> <i>Researcher</i>	VET/09 <b>32</b>
<b>22</b>	2013	191700056	<b>VETERINARY SURGICAL CLINIC (CLINICAL)</b> <i>six-month course</i>	VET/09	<b>Reference</b> <b>Professor</b> Maurizio ISOLA <i>Confirmed</i> <i>Associate</i> <i>Professor</i>	VET/09 <b>40</b>
<b>23</b>	2013	191700056	<b>VETERINARY SURGICAL CLINIC (CLINICAL)</b> <i>six-month course</i>	VET/09	Barbara CAROBBI <i>Confirmed</i> <i>Researcher</i>	VET/09 <b>16</b>
<b>24</b>	2013	191700058	<b>REPRODUCTION CLINIC (CLINICAL)</b> <i>six-month course</i>	VET/10	<b>Reference</b> <b>Professor</b> Maria Elena FALOMO <i>Confirmed</i> <i>Researcher</i>	VET/10 <b>50</b>
<b>25</b>	2013	191700058	<b>REPRODUCTION CLINIC (CLINICAL)</b> <i>six-month course</i>	VET/10	<b>Reference</b> <b>Professor</b> Stefano ROMAGNOLI <i>Ordinary</i> <i>Professor</i>	VET/10 <b>90</b>
<b>26</b>	2013	191700058	<b>REPRODUCTION CLINIC (CLINICAL)</b> <i>six-month course</i>	VET/10	Calogero STELLETTA <i>Confirmed</i> <i>Researcher</i>	VET/10 <b>50</b>
					<b>Reference</b> <b>Professor</b>	

27	2013	191700059	<b>VETERINARY MEDICAL CLINIC (CLINICAL)</b> <i>six-month course</i>	VET/08	Matteo GIANESELLA <i>Associate Professor (L. 240/10)</i>	VET/08 24
28	2013	191700059	<b>VETERINARY MEDICAL CLINIC (CLINICAL)</b> <i>six-month course</i>	VET/08	<b>Reference Professor</b> Alessandro ZOTTI <i>Confirmed Associate Professor</i>	VET/08 40
29	2013	191700059	<b>VETERINARY MEDICAL CLINIC (CLINICAL)</b> <i>six-month course</i>	VET/08	Helen POSER <i>Confirmed Researcher</i>	VET/08 24
30	2014	191700500	<b>EPIDEMIOLOGY AND CONTROL OF FOOD-BORNE ZOOSES</b> (module of ANIMAL INFECTIOUS DISEASES AND AVIAN PATHOLOGY (FOOD SAFETY))	VET/05	<b>Reference Professor</b> Michele DRIGO <i>Confirmed Researcher</i>	VET/05 32
31	2014	191700502	<b>EPIDEMIOLOGY AND CONTROL OF EMERGING ZOOSES</b> (module of ANIMAL INFECTIOUS DISEASES AND AVIAN PATHOLOGY (CLINICAL))	VET/05	Marco MARTINI <i>Confirmed Associate Professor</i>	VET/05 32
32	2017	191706191	<b>VETERINARY PHARMACOLOGY AND TOXICOLOGY</b>	VET/07	Mauro DACASTO <i>Associate Professor (L. 240/10)</i>	VET/07 90
33	2017	191706191	<b>VETERINARY PHARMACOLOGY AND TOXICOLOGY</b>	VET/07	Mery GIANTIN <i>Associate Professor (L. 240/10)</i>	VET/07 20
34	2017	191706198	<b>VETERINARY PHYSIOLOGY 1 AND ETHOLOGY</b> <i>six-month course</i>	VET/02	Lieta MARINELLI <i>Confirmed Associate Professor</i>	VET/02 120
35	2017	191706198	<b>VETERINARY PHYSIOLOGY 1 AND ETHOLOGY</b> <i>six-month course</i>	VET/02	Paolo MONGILLO <i>Confirmed Researcher</i>	VET/02 20
36	2017	191706198	<b>VETERINARY PHYSIOLOGY 1 AND ETHOLOGY</b>	VET/02	Simona Rosaria Carla	VET/02 20

		<i>six-month course</i>			NORMANDO <i>Confirmed Researcher</i>	
37	2017	191706197	<b>VETERINARY PHYSIOLOGY</b> 2 <i>six-month course</i>	PHYS/07 VET/02	Gianfranco GABAI <i>Ordinary Professor</i>	VET/02 120
38	2017	191706199	<b>HYGIENE AND SAFETY IN FOOD TECHNOLOGY</b> <i>six-month course</i>	AGR/15 VET/04	Leonardo ALBERGHINI <i>Confirmed Researcher</i>	VET/04 20
39	2017	191706199	<b>HYGIENE AND SAFETY IN FOOD TECHNOLOGY</b> <i>six-month course</i>	AGR/15 VET/04	Paolo CATELLANI <i>Confirmed Associate Professor</i>	VET/04 80
40	2017	191706196	<b>VETERINARY IMMUNOLOGY AND SEROLOGICAL DIAGNOSIS (MOD. B)</b> (module of VETERINARY MICROBIOLOGY AND IMMUNOLOGY (I.C.)) <i>six-month course</i>	VET/05	Daniela PASOTTO <i>Confirmed Researcher</i>	VET/05 50
41	2014	191700504	<b>ANIMAL-BORNE FOOD INSPECTION AND CONTROL (CLINICAL)</b> <i>six-month course</i>	VET/04	Valerio GIACCONE <i>Ordinary Professor</i>	VET/04 80
42	2017	191706209	<b>VETERINARY HISTOLOGY AND EMBRYOLOGY (MOD. B)</b> (module of VETERINARY BIOLOGY, ZOOLOGY AND HISTOLOGY I.C.))	VET/01	<b>Reference Professor</b> Giuseppe RADAELLI <i>Ordinary Professor</i>	VET/01 80
43	2014	191700507	<b>ANIMAL INFECTIOUS DISEASES (CLINICAL)</b> (module of ANIMAL INFECTIOUS DISEASES AND AVIAN PATHOLOGY (CLINICAL))	VET/05	Marco MARTINI <i>Confirmed Associate Professor</i>	VET/05 50
44	2014	191700509	<b>FOOD MARKETS</b> (module of ANIMAL-BORNE FOOD INSPECTION CONTROL AND FOOD MARKETS (FOOD SAFETY)) <i>semestrare</i>	AGR/01	Davide Matteo PETTENELLA <i>Ordinary Professor</i>	AGR/01 32
45	2017	191706201	<b>ANIMAL NUTRITION AND ECONOMICS</b>	AGR/01 AGR/18	Lucia BAILONI <i>Ordinary</i>	AGR/18 40

		<i>six-month course</i>	AGR/02	<i>Professor</i>		
46	2017	191706201	<b>ANIMAL NUTRITION AND ECONOMICS</b> <i>six-month course</i>	AGR/01 AGR/18 AGR/02	Davide Matteo PETTENELLA <i>Ordinary Professor</i>	AGR/01 30
47	2017	191706201	<b>ANIMAL NUTRITION AND ECONOMICS</b> <i>six-month course</i>	AGR/01 AGR/18 AGR/02	Teofilo VAMERALI <i>Associate Professor (L. 240/10)</i>	AGR/02 30
48	2017	191706188	<b>OBSTETRICS AND REPRODUCTION PATHOLOGY</b> <i>six-month course</i>	VET/10	<b>Reference Professor</b> Antonio MOLLO <i>Associate Professor (L. 240/10)</i>	VET/10 100
49	2017	191706212	<b>PARASITOLOGY AND PARASITIC DISEASES 1 (MOD. A)</b> (module of PARASITOLOGY AND PARASITIC DISEASES (I.C.))	VET/06	Antonio FRANGIPANE DI REGALBONO <i>Confirmed Associate Professor</i>	VET/06 40
50	2017	191706192	<b>PARASITOLOGY AND PARASITIC DISEASES 2 (MOD. B)</b> (module of PARASITOLOGY AND PARASITIC DISEASES (I.C.))	VET/06	<b>Reference Professor</b> Mario PIETROBELLI <i>Ordinary Professor</i>	VET/06 50
51	2017	191706192	<b>PARASITOLOGY AND PARASITIC DISEASES 2 (MOD. B)</b> (module of PARASITOLOGY AND PARASITIC DISEASES (I.C.))	VET/06	Rudi CASSINI <i>Confirmed Researcher</i>	VET/06 10
52	2017	191706192	<b>PARASITOLOGY AND PARASITIC DISEASES 2 (MOD. B)</b> (module of PARASITOLOGY AND PARASITIC DISEASES (I.C.))	VET/06	Antonio FRANGIPANE DI REGALBONO <i>Confirmed Associate Professor</i>	VET/06 10
53	2014	191700511	<b>AVIAN PATHOLOGY (CLINICAL)</b> (module of ANIMAL INFECTIOUS DISEASES AND AVIAN PATHOLOGY (CLINICAL))	VET/05	<b>Reference Professor</b> Alessandra PICCIRILLO <i>Confirmed Researcher</i>	VET/05 60
					<b>Reference Professor</b>	

54	2017	191706193	<b>PATHOLOGY AND SURGICAL SEMIOTICS</b> <i>six-month course</i>	VET/09	Ilaria IACOPETTI <i>Confirmed Associate Professor</i>	VET/09 60
55	2017	191706202	<b>GENERAL PATHOLOGY</b> <i>six-month course</i>	VET/03	Massimo CASTAGNARO <i>Ordinary Professor</i>	VET/03 60
56	2014	191700513	<b>MEDICAL PATHOLOGY AND VETERINARY LEGISLATION</b> <i>six-month course</i>	VET/08	Matteo GIANESELLA <i>Associate Professor (L. 240/10)</i>	VET/08 20
57	2014	191700513	<b>MEDICAL PATHOLOGY AND VETERINARY LEGISLATION</b> <i>six-month course</i>	VET/08	<b>Reference Professor</b> Carlo GUGLIELMINI <i>Ordinary Professor</i>	VET/08 40
58	2017	191706194	<b>MEDICAL SEMIOTICS AND LABORATORY DIAGNOSTICS</b> <i>six-month course</i>	VET/08	Luigi Michele COPPOLA <i>Confirmed Researcher</i>	VET/08 10
59	2017	191706194	<b>MEDICAL SEMIOTICS AND LABORATORY DIAGNOSTICS</b> <i>six-month course</i>	VET/08	Gabriele GERARDI <i>Confirmed Researcher</i>	VET/08 30
60	2017	191706194	<b>MEDICAL SEMIOTICS AND LABORATORY DIAGNOSTICS</b> <i>six-month course</i>	VET/08	Massimo MORGANTE <i>Ordinary Professor</i>	VET/08 50
61	2017	191706194	<b>MEDICAL SEMIOTICS AND LABORATORY DIAGNOSTICS</b> <i>six-month course</i>	VET/08	Helen POSER <i>Confirmed Researcher</i>	VET/08 10
62	2017	191706194	<b>MEDICAL SEMIOTICS AND LABORATORY DIAGNOSTICS</b> <i>six-month course</i>	VET/08	Eric ZINI <i>Non-confirmed Researcher</i>	VET/08 10
63	2017	191706216	<b>ZOOLOGY (MOD. C)</b> (module of VETERINARY BIOLOGY, ZOOLOGY AND HISTOLOGY (I.C.))	BIO/05	Enrico Massimiliano NEGRISOLO <i>Associate Professor (L. 240/10)</i>	BIO/05 8
			<b>ZOOLOGY (MOD. C)</b> (module of VETERINARY		Tomaso PATARNELLO	

64	2017	191706216	BIOLOGY, ZOOLOGY AND HISTOLOGY (I.C.))	BIO/05	<i>Ordinary Professor</i>	BIO/05 40	
65	2017	191706200	<b>GENERAL ZOOTECHNICS AND GENETIC IMPROVEMENT</b> <i>six-month course</i>	AGR/17 SECS-S/02	<b>Reference Professor</b> Michele DRIGO <i>Confirmed Professor</i> Paolo	VET/05 20	
66	2017	191706200	<b>GENERAL ZOOTECHNICS AND GENETIC IMPROVEMENT</b> <i>six-month course</i>	AGR/17 SECS-S/02	CARNIER <i>Ordinary Professor</i>	AGR/17 90	
						ore totali	2888

## Teaching offer provided

Core modules	sector	ETCS		
			Ins	Off Rad
Disciplines Applied to Medical Veterinary Studies	PHYS/07 Applied Physics (to Cultural and Environmental Assets, Biology and Medicine) <i>VETERINARY PHYSIOLOGY 2 (2nd year) - 3 ECTS - six-month course - mandatory</i>			
	CHEM/06 Organic Chemistry <i>VETERINARY BIOCHEMISTRY (1st year) - 3 ECTS - mandatory</i>	6	6	6 - 10
	BIO/05 Zoology <i>ZOOLOGY (MOD. C) (1st year) - 5 ECTS - mandatory</i>			
Plant and Animal Biological and Genetic Disciplines	AGR/17 General Zootechnics and Genetic Improvement <i>GENERAL ZOOTECHNICS AND GENETIC IMPROVEMENT (2nd year) - 2 ECTS - six-month course - mandatory</i>	7	7	6 - 10
Molecules of Biological Interest Structure, Function and Metabolism Disciplines	BIO/11 Molecular Biology <i>MOLECULAR BIOLOGY (MOD. A) (1st year) - 4 ECTS - mandatory</i>			12 -
	BIO/10 Biochemistry <i>VETERINARY BIOCHEMISTRY (1st year) - 9 ECTS - mandatory</i>	13	13	18
Structure and Function of Animal Organisms Disciplines	VET/02 Veterinary Physiology <i>VETERINARY PHYSIOLOGY 2 (2nd year) - 12 ECTS - six-month course - mandatory</i> <i>VETERINARY PHYSIOLOGY I AND ETHOLOGY (2nd year) - 9 ECTS - six-month course - mandatory</i>			
	VET/01 Domestic Animal Anatomy <i>VETERINARY ANATOMY I (1st year) - 7 ECTS - mandatory</i> <i>VETERINARY ANATOMY II (1st year) - 9 ECTS - mandatory</i> <i>VETERINARY HISTOLOGY AND EMBRYOLOGY (MOD. B) (1st year) - 4 ECTS - mandatory</i> <i>VETERINARY SURGERY (4th year) - 3</i>	44	44	30 - 44

*ECTS - six-month course - mandatory*

**Minimum credits provided by University: - (minimum in accordance to Ministerial Decree = 58)**

		70	58 -	
<b>Total Core Modules</b>			82	
<b>Characterizing activities</b>	<b>sector</b>	<b>ECTS</b>		
			<i>month</i>	<i>course - mandatory</i>
		<b>Ins</b>	<b>Off</b>	<b>Rad</b>
Zootechnics, Animal Husbandry and Nutrition Disciplines	AGR/20 Zoocultures <i>ANIMAL HUSBANDRY (3rd year) - 3 ECTS - six-month course - mandatory</i>			
	AGR/19 Special Zootechnics <i>ANIMAL HUSBANDRY (3rd year) - 5 ECTS - six-month course - mandatory</i> <i>ANIMAL WELFARE AND VETERINARY PROFESSION (4th year) - 4 ECTS - mandatory</i>			
	AGR/18 Animal Nutrition and Feeding <i>ANIMAL NUTRITION AND ECONOMICS (2nd year) - 4 ECTS - six-month course - mandatory</i>			
	AGR/17 General Zootechnics and Genetic Improvement <i>GENERAL ZOOTECHNICS AND GENETIC IMPROVEMENT (2nd year) - 4 ECTS - six-month course - mandatory</i>	20	20	20 - 26
Infectious and Invasive Diseases Disciplines	VET/06 Parasitology and Animal Parasitic Diseases <i>PARASITOLOGY AND ANIMAL PARASITIC DISEASES 2 (MOD. B) (3rd year) - 5 ECTS - mandatory</i> <i>PARASITOLOGY AND PARASITIC DISEASES 1 (MOD. A) (3rd year) - 4 ECTS - mandatory</i>			
	VET/05 Domestic Animal Infectious Diseases <i>VETERINARY BACTERIOLOGY AND VIROLOGY (MOD. A) (2nd year) - 4 ECTS - six-month course - mandatory</i> <i>VETERINARY IMMUNOLOGY AND SEROLOGICAL DIAGNOSIS (MOD. B) (2nd year) - 4 ECTS - six-month course - mandatory</i> <i>ANIMAL INFECTIOUS DISEASES AND AVIAN PATHOLOGY (4th year) - 11 ECTS - six-month course - mandatory</i>			
	VET/04 Animal-borne Food Inspection <i>HYGIENE AND SAFETY IN FOOD TECHNOLOGY (2nd year) - 7 ECTS - six-month course - mandatory</i> <i>FOOD SANITARY INSPECTION METHODS (4th year) - 8 ECTS - six-month course - mandatory</i>			
Veterinary Anatomopathological and Inspecting Disciplines	VET/03 Veterinary General Pathology and Pathological Anatomy <i>VETERINARY GENERAL PATHOLOGICAL ANATOMY (3rd year) - 5 ECTS - six-month course - mandatory</i> <i>GENERAL PATHOLOGY (3rd year) - 6 ECTS - six-</i>	34	34	30 - 40

	<i>VETERINARY SPECIAL PATHOLOGICAL ANATOMY (4th year) - 8 ECTS - six-month course - mandatory</i>			
	VET/10 Veterinary Obstetrics and Gynaecology Clinic <i>OBSTETRICS AND REPRODUCTION PATHOLOGY (3rd year) - 4 ECTS - six-month course - mandatory</i> <i>REPRODUCTION CLINIC (5th year) - 6 ECTS - six-month course - mandatory</i>			
	VET/09 Veterinary Surgical Clinic <i>PATHOLOGY AND SURGICAL SEMIOTICS (3 anno) - 6 ECTS - six-month course - mandatory</i> <i>VETERINARY SURGERY (4th year) - 7 ECTS - six-month course - mandatory</i> <i>VETERINARY SURGICAL CLINIC (5th year) - 7 ECTS - six-month course - mandatory</i>			
Veterinary Clinical Disciplines	VET/08 Veterinary Medical Clinic <i>MEDICAL SEMIOTICS AND LABORATORY DIAGNOSTICS (3rd year) - 6 ECTS - six-month course - mandatory</i> <i>ANIMAL WELFARE AND VETERINARY PROFESSION (4th year) - 3 ECTS - mandatory</i> <i>IMAGING DIAGNOSTICS (MOD. B) (4th year) - 4 ECTS - six-month course - mandatory</i> <i>VETERINARY MEDICAL PATHOLOGY (MOD. A) (4th year) - 4 ECTS - six-month course - mandatory</i> <i>MEDICAL CLINIC AND VETERINARY THERAPY (5th year) - 5 ECTS - six-month course - mandatory</i>	61	61	55 - 68
	VET/07 Veterinary Pharmacology and Toxicology <i>VETERINARY PHARMACOLOGY AND TOXICOLOGY (3rd year) - 9 ECTS - mandatory</i>			
Informatics and Statistical Methods Disciplines	SECS-S/02 Statistics for Experimental and Technological Research <i>GENERAL ZOOTECHNICS AND GENETIC IMPROVEMENT (2nd year) - 5 ECTS - six-month course - mandatory</i>	5	5	5 - 8
	<b>Minimum credits provided by University: (minimum in accordance to Ministerial Decree 130)</b>			130
				-
<b>Total characterizing activities</b>			148	174
<b>Related Subjects</b>	<b>sector</b>			<b>ECTS</b>
				<b>Off Rad</b>
	AGR/01 Economics and Rural Appraisal <i>ANIMAL NUTRITION AND ECONOMICS (2nd year) - 3 ECTS - six-month course - mandatory</i>			
	AGR/02 Agronomy and Herbaceous Crops <i>ANIMAL NUTRITION AND ECONOMICS (2nd year) -</i>			



	<i>six-month course</i>		
	<i>PUBLIC HEALTH 1(4th year) - 2 ECTS - six-month course</i>		
VET/08	Veterinary Medical Clinic		
	<i>DOMESTIC ANIMALS 2 (5th year) - 2 ECTS - six-month course</i>		
	<i>PRODUCTIVE LIVESTOCK 2 (5th year) - 2 ECTS - six-month course</i>		
	<i>PUBLIC HEALTH 2 (5th year) - 1 ECTS - six-month course</i>		
VET/09	Veterinary Surgical Clinic		
	<i>DOMESTIC ANIMALS 2 (5th year) - 2 ECTS - six-month course</i>		
	<i>PRODUCTIVE LIVESTOCK 2 (5th year) - 2 ECTS - six-month course</i>		
VET/10	Veterinary Obstetrics and Gynaecology Clinic		
	<i>DOMESTIC ANIMALS 2 (5th year) - 2 ECTS - six-month course</i>		
	<i>PRODUCTIVE LIVESTOCK 2 (5th year) - 2 ECTS - six-month course</i>		
<b>Total Related Subjects</b>		27	20 - 32
<b>Other Subjects</b>			<b>ETCS</b>
			<b>Rad</b>
At the choice of the student		8	8 - 8
	For the final test	9	9 - 9
For the final test and the foreign language (Art. 10, paragraph 5, letter c)	Knowledge of at least one foreign language	3	3 - 3
	<b>Minimum credits provided by University: minimum in accordance to Article 10, comma 5 lett. c</b>		
	Other Language Skills	-	-
	Computer and IT Skills	-	-
Other Educational Subjects (Art. 10, paragraph 5, letter d)	Training and Orientation Internships	35	30 - 40
	Other useful skills for entering the workplace	-	-
	<b>Minimum credits provided by University: minimum in accordance to Article 10, comma 5 lett. d</b>		
	For traineeships and internships at businesses, public or private institutions, professional bodies	-	-
<b>Total Other Subjects</b>		55	50 - 60
<b>Total ECTS for obtaining the title 300</b>			
<b>Total ECTS included</b>	300 258 - 348		



## Core modules

subject area	sector	ECTS		Minimum according to Ministerial decree
		min	max	
Disciplines Applied to Medical Veterinary Studies	CHEM/03 General and Inorganic Chemistry			
	CHEM/06 Organic Chemistry			
	PHYS/01 Experimental Physics			
	PHYS/02 Theoretical Physics, Mathematical Models and Methods			
	PHYS/03 Matter Physics			
	PHYS/04 Nuclear and Subnuclear Physics			
	PHYS/05 Astronomy e Astrophysics			
	PHYS/06 Earth System and Space Physics	6	10	6
	PHYS/07 Applied Physics (to Cultural and Environmental Assets, Biology and Medicine)			
PHYS/08 Didactics and History of Physics				
MAT/01 Mathematical Logic				
MAT/02 Algebra				
MAT/03 Geometry				
MAT/04 Complementary Mathematics				
MAT/05 Mathematical Analysis				
MAT/06 Mathematical Probability and Statistics				
MAT/07 Mathematical Physics				
MAT/08 Numerical Analysis				
MAT/09 Operative Research				
Plant and Animal Biological and Genetic Disciplines	AGR/17 General Zootechnics and Genetic Improvement	6	10	6
	BIO/05 Zoology			
Molecules of Biological Interest Structure, Function and Metabolism Disciplines	BIO/10 Biochemistry	12	18	12
	BIO/11 Molecular Biology			
Structure and Function of Animal Organisms Disciplines	VET/01 Domestic Animal Anatomy	30	44	30
	VET/02 Veterinary Physiology			
<b>Minimum credits provided by University:</b> in accordance to M.D. 58:		-		
<b>Total Core Modules</b>		58 - 82		

## Characterizing activities

If sectors NOT belonging to the class have been inserted next to the min and max credits in square brackets, the ETCS reserved for the sectors belonging to the class are indicated

subject area	sector	ECTS		Minimum according to Ministerial decree
		min	max	
Zootechnics, Animal Husbandry and Nutrition Disciplines	AGR/17 General Zootechnics and Genetic Improvement AGR/18 Animal Nutrition and Feeding AGR/19 Special Zootechnics AGR/20 Zoocultures	20	26	20
Infectious and Invasive Diseases Disciplines	VET/05 Domestic Animal Infectious Diseases VET/06 Parasitology and Animal Parasitic Diseases	20	32	20
Veterinary Anatomopathological and Inspecting Disciplines	VET/03 Veterinary General Pathology and Pathological Anatomy VET/04 Animal-borne Food Inspection	30	40	30
Veterinary Clinical Disciplines	VET/07 Veterinary Pharmacology and Toxicology VET/08 Veterinary Medical Clinic VET/09 Veterinary Surgical Clinic VET/10 Veterinary Obstetrics and Gynaecology Clinic	55	68	55
Informatics and Statistical Methods Disciplines	INF/01 Informatics ING-INF/05 Information Elaboration Processing SECS-S/02 Statistics for Experimental and Technology Research	5	8	5
<b>Minimum of credits reserved by the minimum university by M.D. 130:</b>				-
<b>Total Characterizing Activities</b>				130 - 174

## Related Subjects

subject area	sector	ECTS		Minimum according to Ministerial decree
		min	max	
	AGR/01 - Economics and Rural Appraisal AGR/02 - Agronomy and Herbaceous Crops			

Other Educational or Supplementary Subjects	AGR/10 - Rural Constructions and Agroforestry Territory			
	AGR/15 - Food Science and Technology			
	AGR/18 - Animal Nutrition and Feeding			
	AGR/19 - Special Zootechnics			
	AGR/20 - Zoocultures			
	BIO/10 - Biochemistry			
	M-PHYL/03 - Moral Philosophy			
	SECS-P/10 - Management Consultancy			
	SPS/08 - Sociology of Cultural and Communication Processes	20	32	12
	VET/01 - Domestic Animal Anatomy			
	VET/02 - Veterinary Physiology			
	VET/03 - Veterinary General Pathology and Pathological Anatomy			
	VET/04 - Animal-borne Food Inspection			
	VET/05 - Domestic Animal Infectious Diseases			
	VET/06 - Parasitology and Animal Parasitic Diseases			
VET/07 - Veterinary Pharmacology and Toxicology				
VET/08 - Veterinary Medical Clinic				
VET/09 - Veterinary Surgical Clinic				
VET/10 - Veterinary Obstetrics and Gynaecology Clinic				
<b>Total Related Subjects</b>	<b>20 - 32</b>			

## Other activities

Disciplinary area		ECTS min	ECTS max
At the choice of the student		8	8
For the final test and the foreign language (Art. 10, paragraph 5, letter c)	For the final test	9	9
	Knowledge of at least one foreign language	3	3
Minimum of credits reserved by the university to the activities according to art. 10, comma 5 lett. c		-	-
Other Educational Activities (Art. 10, paragraph 5, letter d)	Other Language Skills	-	-
	Computer and Telematic Skills	-	-
	Training and Orientation Internships	30	40
	Other useful skills to enter the workplace	-	-
Minimum of credits reserved by the university to the activities according to art. 10, comma 5 lett. d			
For traineeships and internships at businesses, public or private institutions, professional bodies		-	-
<b>Total Other Subjects</b>	<b>50 - 60</b>		

## Summary ETCS

<b>Total ETCS for degree</b>	<b>300</b>
Total range of ETCS of programme	258 - 348

## University communications to CUN

It should be noted that the results of the renewed consultations with the representative organizations of the production of goods and services, and of the professions, are reported in the SECTOR A1.b

## Notes on basic activities

## Notes on other activities

## Reasons for the inclusion of sectors envisaged by the class or related activities

The disciplinary field of similar or integrative training activities included in the SSDs also belong to the basic and characterizing training activities. In fact, in recent years many SSD have expanded their specific skills to areas that complement and complete the training of the veterinary surgeon. In particular the areas related to ethology and welfare of pets and animals are identified in related and integrated activities, income (SSD AGR / 17-20 and VET / 02), as well as all the most innovative laboratory methodologies (for example biotechnologies) applicable to various veterinary SSDs (SSD VET / 01, VET / 02, VET / 03, VET / 04, VET / 05, VET / 06 and VET / 07). In addition, the degree programme has been evaluated by the European Commission EAEVE, which has fully approved the compliance with the European educational standards for the degree course in Veterinary Medicine. In particular, the organization of the course provided, albeit with minimal differentiation, the possibility for the student to take part in specialising topics aimed at guiding post-graduate professional choices were valued. To reinforce this type of organization, it was envisaged to include these specific aspects in the VET / 08, VET / 09 and VET / 10 SSDs, in the disciplinary area of similar or complementary training activities.

## Notes on the characterizing activities

**Art. 44 Competences of Departments**

1. Departments shall:
  - a. Decide on the Scientific Disciplinary Sector (SDS) to which professors shall be assigned, according to the procedures established by the University of Padova's General Regulations;
  - b. Organize, together with University Schools, the teaching activity Professors of the Degree Course shall carry out;
  - c. Determine, with regard to teaching and research needs and prior consent of the teachers involved, the procedures to fill the posts granted within the different Degree Courses of the University of Padova. Moreover, it shall be responsible for assigning institutional tasks and additional teaching loads, as well as for issuing teaching contracts, according to the instructions provided by the University Schools, and within the limits determined by Art. 51 of this Statute;
  - d. Bear full responsibility with regard to the course units for which it serves as Reference Department, including with respect to its administrative and accounting management;
  - e. Put forward to the University Schools proposals concerning the creation, activation, modification, deactivation or suppression of the Degree Courses for which it serves as Reference Department;
  - f. Put forward, in accordance with the three-year development plan referred to in Paragraph j) and within the limits of the SDS included in the Department or relevant to it, proposals concerning both the recruitment of professors (also in relation to teaching needs) based on their scientific competences and the launching of recruitment procedures;
  - g. Promote and coordinate teaching and research activities, besides setting up the respective facilities, while respecting the autonomy of every single professor and their right to access directly research funding; to this end, professors shall inform the Director of any research funding application submitted to public or private bodies by depositing a copy of the application before its final submission to the recipient body. This will ensure that it complies with the provisions of the Department.
  - h. Conclude the necessary contracts and agreements regarding research, training and service activities (including on behalf of third parties) that are relevant to the Department, according to the guidelines established by the Board of Directors. It shall also make available the resources necessary to enforce the aforementioned agreements and contracts.
  - i. Participate, through its Director or their delegate, in investigating authorities, serving the interests of both Departments and research activities;
  - j. Prepare its three-year development plan, which includes the planning of courses, the requests submitted by the University concerning technical-administrative staff needs, space and financial resources. Furthermore, it shall propose the modalities through which technical-administrative staff vacancies of the University are filled. With respect to the three-year development plan, the opinion of the School Councils shall be taken into account, according to Art. 51 of this Statute;
  - k. Organize, in collaboration with the competent bodies of the University, training courses and refresher courses for technical-administrative staff;
  - l. Propose the creation of Interdepartmental and Inter-university Centres, as well as of research consortia, also with its own funding;
  - m. Carry out the functions set forth in the Degree Course Regulations, the Statute and other Regulations.

**Art. 51 – Competences of University Schools**

1. University Schools shall coordinate and rationalize the teaching activities offered by the Departments within which they fall, besides fostering, in collaboration with the Departments, the implementation of initiatives aimed at improving the efficiency of teaching and services offered. In particular, University Schools shall:
  - a. Propose, after consulting the Departments involved, the Degree Course Regulations for each Degree Course; for the purposes of this Article, the aforementioned Departments must fall within the competency of the University School and provide the teaching activity by the Degree Course through its professors;
  - b. Propose, after consulting the Departments involved, the creation, activation, modification, deactivation or suppression of Degree Courses;
  - c. Carry out, after consulting the Departments involved, external communication with regard to the teaching offer of its Degree Courses, as well as communicating any other activities involving the labour market and/or the veterinary profession. In doing this, the University School shall maintain relationships with both the Professional Association of Veterinarians and other representative bodies, also with respect to the National Examination for the profession;
  - d. Provide mandatory – although not binding – opinions on the modalities to fill vacant teaching posts for the course units offered by the Degree Courses. Opinions shall be expressed within 60 days upon request;
  - e. Provide non-binding opinions on the three-year development plan, with regard to teaching aspects concerning the Degree Courses on offer. Opinions shall be expressed within 60 days upon request;
  - f. Promote actions undertaken within the existing mobility programmes targeted at students enrolled in the various Degree Courses and/or Specialization Schools of the University of Padova;
  - g. Coordinate appropriate continuing education activities and accredit training events (in collaboration with the Departments involved) for which they have been granted permissions;
  - h. Coordinate, in collaboration with the Departments involved, relations with the University's press office and with press offices of external authorities;
  - i. Organize teaching-related activities that are shared between the Departments involved;
  - j. Coordinate, in collaboration with the Central Administration, IT Services that are relevant for the teaching activities of the Degree Courses.
2. The use of teaching resources, funded through conventions promoted by the School based on reasoned proposals by the Departments concerned and signed by the Rector, shall be decided by the Board of Directors. In case of Multi-School Departments, opinions shall be formulated by the Council of the University School within which the Director of the Degree Course to which the professor for teaching purposes belongs.
3. The University School, which includes the Departments to which staff members who provide support within the framework of the existing national legislations belong, shall take on the duties necessary to guarantee the indivisibility of teaching and scientific functions and support functions, according to the procedures and within the limits established by the University of Padova along with the Veneto region, pursuant to Art. 6, Paragraph 13 of Law No. 240/2010. In particular, without prejudice to the competences allocated by Law to the Rector and the Departments, including the competences set forth in Paragraph 1, the University School shall be responsible for:

- a. Issuing, in collaboration with the Departments involved, a reasoned opinion to the Rector with regard to the proposals the University shall put forward to the Veneto region with respect to the regional health and social care plan;
- b. Preparing, in cooperation with the Departments involved and in accordance with the University, the agreements with external organizations that impinge upon the conditions under which teaching, scientific and support activities shall be implemented by the professors of clinical course units, taking into consideration both their inseparability and the provisions set forth in Art. 6, Paragraph 13 of Law No. 240/2010; the University School shall also be responsible for preparing further implementing acts, if needed, in relation to the aforementioned Convention;
- c. Ensuring that, in the issuance of the opinion referred to in Paragraph 1 (f), public competitions to fill teaching posts in the clinical area (for both the Degree Courses and Specialization Schools), as provided for in the three-year development plan, are published taking into consideration the availability of facilities in order to ensure that teaching activities are carried out in conjunction with support activities.
- d. Taking part, in collaboration with the Veneto region and in accordance with the Departments involved, in the planning and management of the Degree Courses at the premises responsible for the provision of decentralised activities;
- e. Coordinating and managing, in collaboration with the Departments involved, the relations with the Medical Association of Surgeons, Dentists and Healthcare professions with regard to the National Examination and training activities related to general medicine and public health carried out in the territory;
- f. Ensuring the coordinated management of all services that are shared (classrooms, common spaces, etc.), also in relation to hospitals and health authorities of the Veneto region;
- g. Coordinating and managing the relations with international organizations and Medical faculties, and in particular with the World Health Organization (WHO) and the Association of Medical Schools in Europe (AMSE);
- h. Coordinating and managing, in accordance with the *Osservatorio per la formazione specialistica post lauream* (the National Observatory for Specialised Medical Education), the Quality Service responsible for the certification of the Degree Courses, the Schools of Specialization, and professional placements;
- i. Coordinating, in collaboration with the Data Centre of the University of Padova, the relations and safety standards between the Departmental networks grouped together with the Information Technology Service of the Padua hospital administration;
- j. Implementing, in collaboration with the Departments involved, appropriate actions to improve the delivery of both education and training services. In particular, it shall verify, in consultation with the University of Padova, the suitability of both the premises of the Degree Courses and of external facilities to carry out teaching and research activities, in addition to the inextricably linked support activities;
- k. Identifying the relevant needs of the professional Degree Courses and Schools of Specialization, in agreement with the Board of Directors of the various Specialization Schools in the area of healthcare, and after previous consultation with the National Observatory for Specialised Medical Education;
- l. Providing opinions with regard to the qualifications that members of the National Health Service shall possess when engaged in teaching activities, as well as in the planning of support activities that are inextricably linked to teaching and research activities;

- m. Indicating to the Board of Directors the top-level subjects in the area of welfare.
4. The University School, which groups together the Departments of veterinary medicine, besides being responsible of the competences as per Paragraph 1, shall also be responsible (without prejudice to the competences established by the Law and entrusted to the Rector and Departments) for the following:
- a. Coordinate and manage the relations with national and international veterinary organizations, including the WHO;
  - b. Coordinate and manage the European certification and accreditation system for the Single-Cycle Degree Course in Veterinary Medicine;
  - c. Identify the no. of entrants admissible to the Single-Cycle Degree Course in Veterinary Medicine to be proposed to the Italian Ministry of Education, Universities and Research.

## **Regulations of the Department of Animal Medicine, Production and Health Clinical Section - Veterinary Teaching Hospital (OVUD)**

### **Art. 1**

Considering the Clinical Section of the Veterinary Teaching Hospital (hereinafter referred to as OVUD), which is closely related to the Degree Course in Veterinary Medicine, the objectives are:

- a) To ensure and improve the teaching quality of the Degree Course in Veterinary Medicine. Students, directly involved in clinical activities under the supervision of veterinarians and professors, will be provided with adequate theoretical and practical knowledge, which will enable them to have a broader vision and preparation with regard to the veterinary profession.
- b) To guarantee that the approval status granted by the *European Association for the Establishments of Veterinary Education* (EAEVE) is maintained over time. Among the criteria set forth by the Association is the presence, within the Degree Course in Veterinary Medicine, of a teaching hospital providing 24-hour emergency care to complete both the student's educational path and their training.
- c) To guarantee a high professional quality in the various specialized sectors of Veterinary Medicine in order to collaborate, as a reference center, with the Veterinarians and Veterinary State Bodies of the territory; at the same time, the Center seeks to provide a clinical-veterinary assistance service for the territory, with 24-hour emergency service, specialist advice, inpatient admission and intensive care;
- d) To guarantee research by promoting scientific and cultural growth, in collaboration with the Animal Production, Welfare and Veterinary Public Health section of the MAPS Department, as well as the BCA Department, on issues concerning *Animals and Health*, by serving as a reference center for the community and the territory committed to address a range of matters, such as the quality of animal life and its possible impact on human health;
- e) To ensure a valid support to the activities organized within advanced and post-graduate courses in the various specialized sectors (with a focus on the clinical path) of Veterinary Medicine.

### **Art. 2**

Among OVUD's bodies are:

- the VTH Management Committee
- the VTH Director

### **Art. 3**

The Management Committee consists of:

- the VTH Director
- the Director, or their delegate, of MAPS Department
- the Director of the Degree Course in Veterinary Medicine
- eight (8) professors, who shall be chosen among veterinary professionals registered with the Veterinary Association and shall act as representatives of the various OVUD's Operative Units. Out of these eight professors, six shall be chosen among those appointed to teach clinical subjects (two professors for each clinical scientific-disciplinary sector) and two among those appointed to teach non-clinical subjects (one from the MAPS Department and one from the BCA Department)
- the Secretary of the MAPS Department, who shall have an advisory capacity

The Management Committee is responsible for:

- a) defining the OVUD's programme guidelines and activity plan of the OVUD, including any lines of research to be developed and subsequently submitted for approval to the MAPS Departmental Council;
- b) evaluating and proposing contracts and agreements for approval to the MAPS Departmental Council;
- c) evaluating and proposing the fee schedule of chargeable services for approval to the MAPS Departmental Council;
- d) evaluating and proposing all the relevant documents necessary for the administrative and accounting management in the preliminary phase, as well as during the course of the financial year and in the final report (as defined by the University Regulations for Administration, Finance and Accounting) for approval to the MAPS Departmental Council.
- e) evaluating and proposing any possible modification to the Internal Regulations for the proper functioning of the OVUD's Clinical Section for approval to the MAPS Departmental Council;
- f) evaluating and proposing collaboration contracts and protocols for approval to the MAPS Departmental Council;
- g) evaluating and proposing the designation of the VTH Director of subsequent appointment by the Rector for approval to the MAPS Departmental Council;
- h) proposing the recruitment of additional staff members necessary to carry out activities at OVUD;
- i) managing the relations with the Animal Production, Health and Veterinary Public Health section of the MAPS Department, as well as the BCA Department, in order to guarantee the full functionality of OVUD's Operative Units;

The Management Committee is established by Decree of the Director of the MAPS Department, at the suggestion of the professors who carry out support activities at the OVUD's Operative Units. It shall remain in office for four years.

The Management Committee is convened by the VTH Director in ordinary session at least every six months. In case of necessity or urgency, the Committee shall be convened in extraordinary session. Minutes of the meetings shall also be taken.

#### **Art 4.**

The VTH Director (who shall be identified among the professors who are also members of the Veterinary Association) is chosen among the professors of the clinical area, and appointed by the Rector on the proposal of the MAPS Departmental Council, taking into account the suggestions formulated by the Management Committee. The VTH Director shall remain in office for four years.

In the transitional phase, being the OVUD's Clinical Unit not yet operational, the first designation of the VTH Director shall be approved by the MAPS Departmental Council on the proposal of the clinical component of the Department.

The VTH Director shall:

- a) support the promotion of OVUD's institutional activities;

- b) coordinate the operation of the OVUD based on the guidelines defined by both the Management Committee and the Departmental Council, making sure they are properly implemented;
- c) be responsible for all health aspects of the OVUD;
- d) be responsible for obtaining the necessary regional authorizations for the exercise of OVUD's health activities;
- e) assist, with the support of the Secretary of the Department, the Director of MAPS in the preparation of all documents required for the accounting management in the preliminary phase, during the course of the financial year and in the final report, as defined by the University Regulations for Administration, Finance and Accounting;
- f) manage, by delegation of the Director of MAPS, the technical staff working at OVUD with regard to the services falling within the Center's competence; furthermore, they shall also coordinate its activities;
- g) convene and chair the Management Committee.

**Art. 5.**

The OVUD – through its Management Committee – manages the funds received from outside and intended for clinical and health activities by defining strategic lines. OVUD's budget, which derives from chargeable services, external agreements and so forth, will be managed within a specific Project / Macro-activity that will be differentiated from the other funds of the MAPS Department. This latter project shall be managed by the OVUD's VTH Director.

These resources will be reinvested exclusively in activities of clinical-veterinary interest and in the purchase of goods and services necessary for the functioning of the Veterinary Hospital.

**Art. 6**

The VTH Director, with the support of the Management Committee, organizes the hospital's clinical-assistance services, including the 24-hour emergency service on weekdays and holidays, as well as the various specialist veterinary services. These activities shall take advantage of the collaboration of the necessary number of qualified Veterinary Physicians recruited through appropriate forms of contracts. Newly recruited collaborators may also be involved in teaching support or traineeship activities offered to the students of the Degree Course in Veterinary Medicine.

**OVUD's units and laboratories**

<b>Unit</b>	<b>Managing department</b>	<b>Head of the Unit</b>
Anaesthesia, resuscitation and intensive care	MAPS	Giulia Maria De Benedictis
Behavioural Medicine	BCA	Simona Normando
Cardiology	MAPS	Carlo Guglielmini
Clinical diagnostic laboratory	MAPS	Carlo Guglielmini
Dermatology	MAPS	Helen Poser
Equines	MAPS	Maria Elena Falomo
Internal Medicine	MAPS	Carlo Guglielmini
Microbiology and infectious diseases	MAPS	Daniela Pasotto
Neurology	MAPS	Marco Bernardini
Non-conventional animals	MAPS	Carlo Guglielmini
Nutrition	MAPS	Rebecca Ricci
Ophthalmology and odontostomatology	MAPS	Ilaria Iacopetti
Orthopaedics and traumatology	MAPS	Maurizio Isola
Parasitology and parasitic diseases	MAPS	Mario Pietrobelli
Pathological Anatomy	BCA	Valentina Zappulli
Pharmacology	BCA	Mauro Dacasto
Radiology	MAPS	Tommaso Banzato
Ruminants	MAPS	Massimo Morgante
Soft tissue surgery	MAPS	Maurizio Isola
Triage, emergency service and hospitalization	MAPS	Carlo Guglielmini
Reproduction	MAPS	Antonio Mollo

<b>Laboratory</b>	<b>Managing department</b>	<b>Head of the Unit</b>
Clinical diagnostic laboratory	MAPS	Tamara Badon
Food inspection and control laboratory	MAPS	Riccardo Miotti Scapin
Infectious diseases laboratory	MAPS	Alessandra Mondin
NIRS laboratory	MAPS	Sandro Tenti
Parasitology laboratory	MAPS	Cinzia Tessarin
Diagnostic imaging laboratory	MAPS	Calogero Vaccaro
Reproduction laboratory	MAPS	Paolo Zucchini



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## Teaching Animal Facilities at the «L. Toniolo» Experimental Farm

**Giulio Cozzi**

**Dipartimento di Medicina Animale, Produzioni e Salute**



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### Aims of the training at the Teaching Animal Facilities

Pillars of the educational offer at TAF:

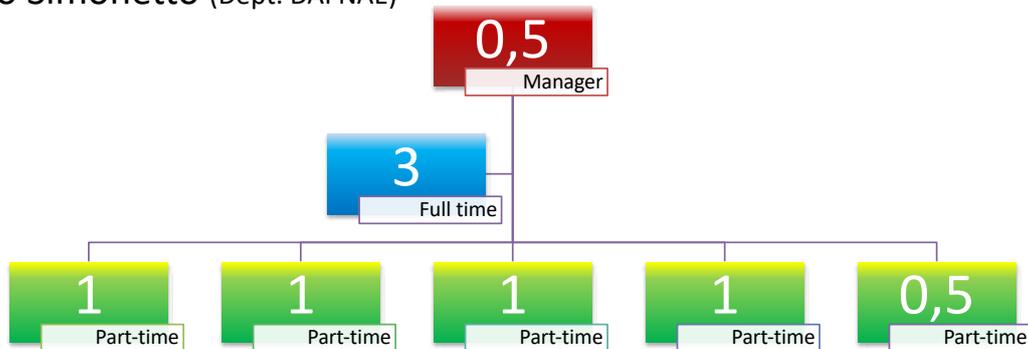
- high quality academic training at sustainable costs under the supervision of high professional skills;
- implementation of training activities for students at facilities certified for health and safety;
- upgrading of the training quality for all degree courses dealing with farm animal health & production in the biggest «open-air» laboratory of the Campus of Agripolis by the implementation of innovative technologies.



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## Teaching Animal Facilities organization chart

TAF manager & training coordinator:  
dr. Alberto Simonetto (Dept. DAFNAE)



Management supervisor:  
Prof. Giulio Cozzi (Dept. MAPS)

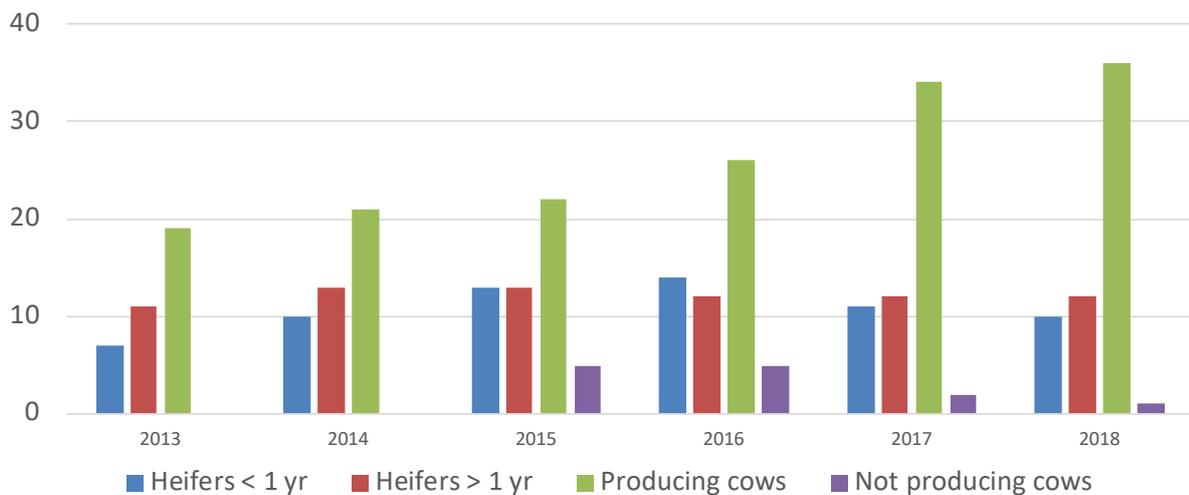
Animal health manager:  
Prof. Matteo Giancesella (Dept. MAPS)



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## Consistency of the teaching dairy herd

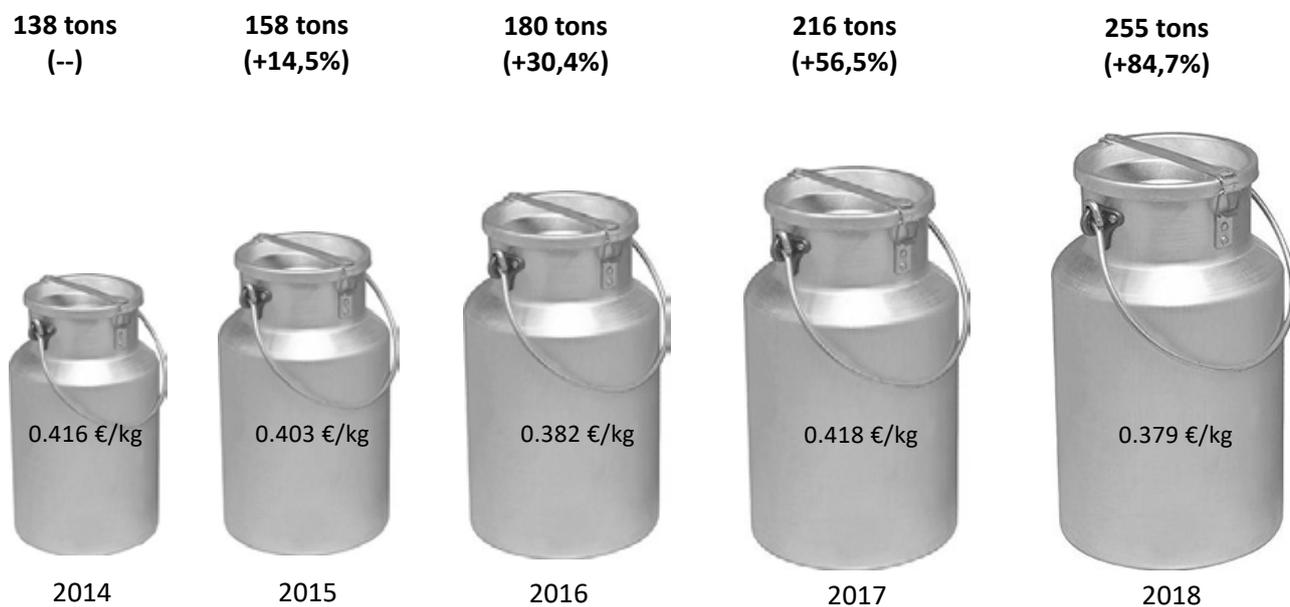
Teaching dairy herd



Horses: 2; Sheep: 12; Poultry: 20; 1 cow used for teaching at the Clinic Center


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## Milk yield and milk price



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## Training & Internship activities (year 2017)

		Sessions (n)	Students (n)	Hours (n)
<b>2017</b> <b>(Δ 2016)</b>	<b>DCVM</b>	<b>247</b>	<b>1213</b>	<b>890</b>
	<b>Livest. Prod</b>	44	271	230
	<b>Agriculture</b>	15	111	32
	<b>Other Courses/Master (6)</b>	16	330	63
	<b>Total</b>	<b>322 (+30%)</b>	<b>1925 (+18%)</b>	<b>1215 (+26%)</b>



**3.**

**ANNEX**



## Rules governing the DCVM's Tirocinio Scheme (Teaching Regulation, Ministerial Decree No. 270 of October 24<sup>th</sup>, 2004)

### Objectives

The single cycle degree course in Veterinary Medicine requires students to complete 35 Tirocinio ECTS as part of the practical training provided for by the Degree Course Teaching Regulation (DCTR).

Tirocinio activities represent the practice-oriented educational phase of the degree course. Besides allowing students to discover the real nature of the profession, the Tirocinio enables them to apply knowledge and skills in a variety of working contexts and acquire practical skills of different educational and learning areas.

The National Examination, which establishes the candidate's suitability to practice as a veterinarian, is the actual tool to monitor and verify the learning outcomes (knowledge, skills and competences) students should have acquired from the Tirocinio activities.

### Organisation and Coordination of Tirocinio activities

Tirocinio activities are broken down into learning areas as illustrated in Annex 1 (approved by the Degree Course Council on April 11<sup>th</sup>, 2017).

The Tirocinio activities the students shall carry out are outlined in the trainee's logbook and are supervised by either the degree course teaching staff or external professionals.

The role of the professors involved in the supervision of and the provision of support to the trainees is deemed to be crucial for the degree program, the Department of Animal Medicine, Production and Health (MAPS) and the Department of Comparative Biomedicine and Food Science (BCA). Such activity is indeed considered to be comparable to that of theoretical and practical training and is therefore an integral part of the course load.

With regards to the coordination and organisation of the Tirocinio activities, the Degree course Council relies on the support of the Tirocinio Committee (Annex 2, approved by the Degree Course Council on September 28<sup>th</sup>, 2017).

The main tasks of the Tirocinio Committee are:

- To establish, together with the professors of the degree course and the external professionals involved in the Tirocinio scheme, the activities that students shall carry out and that are described in the trainee's logbook;
- To propose amendments of and/or additions to the Tirocinio activities included in the trainee's logbook;
- To establish a timetable for Tirocinio activities;
- To organise and verify the procedures and services aimed at activating, carrying out, monitoring and checking the quality of the Tirocinio;
- To define the evaluation procedures of the activities carried out by students, as well as the level of student satisfaction as regards the activities provided;
- To register the ECTS related to Tirocinio activities;
- To propose amendments to this regulation.

### Conditions required to take part in the Tirocinio

In order to take part in the Tirocinio, students shall carry out the formalities hereinafter described, in addition to attending or passing the courses covering the subjects listed in Annex 3, as approved by the Degree Course Council on 11<sup>th</sup> April 2017 (and subsequently amended on 24<sup>th</sup> September 2019). Should the student fail to meet the necessary requirements or be unable to attend the mandatory courses, the Tirocinio will take place during the following academic year.

Any information regarding the fulfilment of the activities necessary to take part to the Tirocinio and the organisation of the Tirocinio activities are made available to students through publication on: <https://www.agrariamedicinaveterinaria.unipd.it/corsi/mv>

In order for students to take part to the Tirocinio, they shall:

1. Undergo a **medical examination**, as established by the Department of Preventive Medicine, to check their overall health prior to commencing any Tirocinio activities.

- Students will be contacted to arrange a date and time for the examination and are required to appear for the medical examination.
2. Provide the certification which confirms they have received the necessary **General Safety Training**. This document constitutes evidence of the successful completion of the final examination regarding the General Safety training in accordance with D.Lgs No. 81/08. The training course shall be completed during the 1<sup>st</sup> year (prior to practical activities commencing) and attached to the Training Project form.
  3. Sign the confidentiality agreement. The Secretariat will send the document to students, who need to sign and return it along with the Training Project form. This document is very important given the particular type of activities that will be conducted in different educational and professional contexts, both intra and extramural.
  4. Return the **Training Agreement** form signed in all its parts. This form allows students to take part to the Tirocinio activities and provides insurance cover throughout the time the activities (both intra and extramural) are carried out. The Training Project form is integrated and validated by both the timetable and a detailed written report of the activities. The body responsible for the management of such documents is the Secretariat.

### **Tirocinio instructions, logbook compilation and acquisition of ECTS**

From the 2018/19 academic year, 20 out of 25 hours per Tirocinio ECTS will be devoted to mandatory training activities supervised by a professor, whilst the remaining five to coordinated individual activities whose objective is to assess the acquired skills and the student's level of autonomy.

Once the activities of each area are completed and professors' evaluations collected, the appointed teacher for the area will assess the student's level of achievement (approved/not approved). If the student's evaluation is "not approved", they will be asked to retake those activities in which they performed poorly, according to the instructions of each area and the organisational availability of the Tirocinio.

All the activities carried out by the students are grouped per year and learning area and reported in the trainee's logbook. As of the a.y. 2019/20 an electronic version of the Logbook has been implemented. In order to access the online platform, users shall use their Single sign-on. Upon completion of each activity, students must tick the appropriate box, which will be subsequently validated by the teacher responsible for the Tirocinio activity. The presence of the teacher's validation will be taken as proof that students completed the activities.

The list of how ECTS are distributed throughout the various years is further detailed in Annex 1.

For the cohort enrolled in the a.y. 2019/20, the registration of Tirocinio activities will only take place upon completion of all activities. For all subsequent cohorts, the registration of ECTS will occur in four different stages (at the end of the 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> year, with 3, 3 5 and 24 ECTS awarded, respectively) and will be managed by an appointed Committee.

From 2017/2018 academic year, students are also required to evaluate the Tirocinio activities through Moodle. The evaluation is anonymous and binding for the purpose of obtaining the validation of the Tirocinio ECTS (resolution approved by the Degree course Council on December 6<sup>th</sup> 2017).

### **Implementation of and amendments to the Regulation**

From the 2017/2018 academic year, the Regulation of the Tirocinio Scheme shall apply to all the cohorts falling within the 2017 "Ordinamento".

Further amendments to the regulation in question may be proposed by the working group on practical Tirocinios, or by the majority of the Degree Course Council components.

The annexes to the regulation are approved, amended or integrated by the Degree course Council on a proposal by the Tirocinio Committee.

Annex 1: Breakdown of Tirocinio ECTS credits

Year	1 <sup>st</sup> Semester CFUs		2 <sup>nd</sup> Semester CFUs		No. of CFUs
1	SAFETY TRAINING				1
2	0,5	SSD AGR/17-20	0,5	SSD AGR/17-20	2
			1	SSD VET/02	
3	1	SSD AGR/17-20	1,5	SSD AGR/17-20	3
	0,5	SSD VET/04			
4	1	SSD AGR/17-20	0,5	SSD AGR/17-20	5
	1	SSD VET/06			
	1	SSD VET/3			
	1,5	SSD VET/05 Infectious Diseases			
5	1	SSD VET/05 Avian Pathology			24
	2	SSD VET/03 Necropsy Room			
	18	SSD clinical area (VET/08, VET/09, VET/10)			
	3	SSD VET/04			
					35

\*SSD = Scientific Disciplinary Sector

## Annex 2: Composition of the Tirocinio Committee

	<b>Coordinator</b>
CHAIRMAN OF THE DEGREE COURSE COUNCIL	Matteo Giancesella
VETERINARY PHYSIOLOGY (SSD VET/02)	Paolo Mongillo
GENERAL PATHOLOGY AND VETERINARY PATHOLOGICAL ANATOMY (SSD VET/03)	Laura Cavicchioli
INSPECTION OF FOOD PRODUCTS OF ANIMAL ORIGIN (SSD VET/04)	Paolo Catellani
INFECTIOUS DISEASES OF DOMESTIC ANIMALS (SSD VET/05)	Maria Luisa Menandro, Alessandra Piccirillo
PARASITOLOGY AND PARASITIC ANIMAL DISEASES (SSD VET/06)	Federica Marcer
CLINICAL VETERINARY MEDICINE (SSD VET/08)	Helen Poser
CLINICAL VETERINARY SURGERY (SSD VET/09)	Ilaria Iacopetti
CLINICAL VETERINARY OBSTETRICS AND GYNAECOLOGY (SSD VET/10)	Antonio Mollo
ANIMAL HUSBANDRY (SSD AGR/17, AGR/18, AGR/19, AGR/20)	Rebecca Ricci, Angela Trocino,
SCHOOL OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE	Elena Giora
OVUD	Carlo Guglielmini
STUDENT REPRESENTATIVES	Martina Baldin, Arianna Codeluppi

## Annex 3: Tirocinio preliminary courses

YEAR	AREA OF TIROCINIO	COURSE
1	<b>SAFETY TRAINING</b>	
2	Introduction - SSD AGR/17÷20	
	Genetics - SSD AGR/17÷20	
	Veterinary Physiology and Ethology - SSD VET/02	
3	Farm animal nutrition - SSD AGR/17÷20	
	Inspection of food products of animal origin - SSD VET/04	<b>HYGIENE AND TECHNOLOGY FOR FOOD SAFETY (attendance only)</b>
	Nutrition and feeding of companion animals, poultry and rabbits - SSD AGR/17÷20	
4	Animal welfare and breeding techniques - SSD AGR/17÷20	
	Anatomical Pathology - SSD VET/03	<b>GENERAL PATHOLOGY</b>
	Infectious Diseases of Domestic Animals - SSD VET/05	
	Parasitology and parasitic diseases - SSD VET/06	

5	Avian Pathology - SSD VET/05	<b>INFECTIOUS DISEASES OF ANIMALS AND AVIAN PATHOLOGY</b>
	Infectious diseases of domestic animals - SSD VET/05 (external)	
	Anatomical Pathology- SSD VET/03	<b>GENERAL ANATOMICAL PATHOLOGY, INFECTIOUS DISEASES OF ANIMALS AND AVIAN PATHOLOGY, PARASITOLOGY AND PARASITIC DISEASES</b>
	OVUD – Clinical medicine, Surgery and Reproduction - SSD VET/08 - VET/09 - VET/10	<b>MEDICAL SEMEIOTICS AND LABORATORY DIAGNOSTIC; VETERINARY SURGERY PATHOLOGY AND SEMEIOTICS; VETERINARY OBSTETRICS AND PATHOLOGY OF REPRODUCTION</b>
	Ruminants-swine-equines - SSD VET/08÷10	<b>MEDICAL SEMEIOTICS AND LABORATORY DIAGNOSTIC; VETERINARY SURGERY PATHOLOGY AND SEMEIOTICS; VETERINARY OBSTETRICS AND PATHOLOGY OF REPRODUCTION</b>
	Inspection of food products of animal origin SSD VET/04	<b>FOOD SANITARY INSPECTION METHODS</b>

\*OVUD = UniversityVeterinaryTeaching Hospital



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**SINGLE CYCLE DEGREE COURSE IN VETERINARY MEDICINE**

**TRAINEE'S LOGBOOK**

**A.Y. 2018/2019**

Student's name:

Student ID No.:

\_\_\_\_\_

\_\_\_\_\_

Academic year in which the practical training started:

Submitted to the Didactic Secretariat on:

\_\_\_\_\_

\_\_\_\_\_

Signature of the Director of the Degree Course:

\_\_\_\_\_

**PARASITOLOGY AND PARASITIC DISEASES**

No.	Acquired skills	Date	Year of Course	Facility	Student's signature	Full name of the activity supervisor	Signature of the activity supervisor
1	Epidemiological and diagnostic in-depth study of a parasitic disease (individual activity)						
2	Micro and macroscopic detection of parasites of veterinary interest						
3	Laboratory diagnosis of parasitic diseases of the digestive and respiratory system						
4	Diagnosis of Hemoparasitic disease						
5	Formulation of a control plan						
6	Evaluation of the student's ability to manage parasitic diseases (epidemiology, diagnosis and control) through both written and oral examinations						
7							
8							
9							
10							

PHYSIOLOGY AND ETHOLOGY							
No.	Skills acquired	Date	Year of Course	Facility	Student's signature	Full name of the activity supervisor	Signature of the activity supervisor
1	Correct approach to the dog; management and medical training						
2	Evaluation of dog's social behaviours and risk prediction of dog's aggressive behaviours vs. conspecifics.						
3	Identification of stress, fear and pain in dogs/cats						
4	Risk prediction of aggressive behaviours vs. human beings in clinical settings						
5	Approach to and management of donkeys/other farm animals						
6	Development of procedures to assess farm animals' behaviours						
7	Evaluation of farm animals' ethological needs satisfaction						
8	Identification of behavioural problems and domestic animals' ethological needs satisfaction						
9	Provision of instructions to colleagues and animals' owners for animals with behavioural problems						
10	Post-activity skills assessment test						
11							
12							

ANIMAL HUSBANDRY							
No.	Skills acquired	Date	Year of Course	Facility	Student's signature	Full name of the activity supervisor	Signature of the activity supervisor
1	Correct approach, containment and movement regarding farm animals						
2	Correct approach, containment and movement regarding sheep and/or goats						
3	Participation in management and care activities of hospitalised farm animals						
4	Participation in management and care activities of sheep and/or goats						
5	Zoometric measurements of cattle						
6	Zoometric measurements of sheep and/or goats						
7	Reading and understanding of company's printouts						
8	Ethnology and morphofunctional evaluation of farm animals (cattle, swine, sheep, goats)						
9	Correct care, approach and movement towards equines						

10	Composition of equine's diet and rationing throughout various life stages						
11	Identification and evaluation of fodder and concentrates for farm animals						
12	Reading and understanding of feed tags (farm animals), and formulation exercise						
13	Management, handling and containment of poultry in rural farming settings and identification of poultry breeds						
14	Activities associated with poultry hatchery management						
15	Management, handling and containment of farmed rabbits						
16	Control and evaluation of production and breeding performances of farmed rabbits						
17	Identification of breeds, sex and age, as well as census and capture techniques of wild ungulates						
18	Telemetry applied to wildlife and health care management of wild animals						
19	Handling and management of captive animals						
20	Preparation and distribution of environmental enrichment						
21	Implementation of <i>on farm</i> control protocols for animal welfare (swine farming)						
22	Formulation of balanced diets for milking cows, dry cows, heifers, and beef cattle with a distinct genetic type						
23	Critical discussion of particle size						
24	BCS evaluation in ruminants						
25	Preparation of animals for milking and post-milking treatments						
26	Sensory evaluation of meat products						
27	Identification of rheological properties in meat and dairy products						
28	Comparison of nutrition labels of products of animal origin						
29	Reading and understanding of companion animals ID tags						
30	Formulation and discussion of food plans for companion animals						

	2 <sup>nd</sup> year practical training assessment test						
	3 <sup>rd</sup> year practical training assessment test						
	4 <sup>th</sup> year practical training assessment test						

FOOD INSPECTION (INTERNAL)							
No.	Skills acquired	Date	Year of Course	Facility	Student's signature	Full name of the activity supervisor	Signature of the activity supervisor
1	Audit on the premises of a raw milk distributor. Laboratory: microbiological analysis of a sample of food product of animal origin						
	<i>Evaluation of the skills acquired – administration of a problem-solving case study</i>						
2	Laboratory: critical reading and understanding of microbiological analysis results (see point 1)						
	<i>Evaluation of the skills acquired – management of foodborne diseases</i>						
3	Use of Python programming language for species identification in animal and food matrices; use of genomic databases; introduction to the most used information technology packages in food inspection and safety <i>Evaluation of the skills acquired – problem-solving</i>						
4							
5							
6							

FOOD INSPECTION (Local Health service – ASL)								
Notes for completion. Notes for the healthcare professional. The “Activity supervisor” is the person who carries out the practical activities along with the student; name and surname must be written in capital letters, and a signature must be provided.								
For both students and healthcare professionals. The “No. of hours” refers to the amount of time spent on one specific facility’s premises (facilities visited multiple times must be taken into account). For example, write 3+3, etc. if the activities are carried out with the same supervisor; otherwise, include other activities in the following table (use empty lines) or print other sheets including the name of the activities. Please, specify whether the practical activity belongs to either the 4 <sup>th</sup> or 5 <sup>th</sup> year of course.								
No.	Skills acquired	Date	Year of Course	No. of hours	Facility	Student's signature	Activity supervisor	
							FULL NAME	Signature
1	Alert plans and procedures to withdraw/recall products. Verification of food products’ traceability systems							
2	Inspection controls in fish farms and fish slaughter							
3	Visit, inspection and analysis of HACCP plans in production and processing laboratories of fishery products							
4	Fish market/fish wholesalers: identification and evaluation of correct labelling and designation of fish species							

5	Visit, inspection and analysis of HACCP plans in milk production plants/dairies						
6	Visit, inspection and analysis of HACCP plans in pasta factories, honey extraction plants, plants for the production of eggs for human consumption/egg products						
7	Visit, inspection and analysis of HACCP at ..... ..... ..... ... (specify facility)						
8	Verification of food product labelling; stamp/identification marks for products at the retail/cold store stage						
9	<i>On situ</i> sampling for official analysis						
10	Participation in the performance of an audit plan at ..... ..... ... (specify facility)						
11	Document examination; animal identification (animal registry); <i>ante-mortem</i> health inspection						
12	Visit and inspection of swine/cattle slaughterhouses						
13	Visit and inspection of poultry/rabbit/wild game slaughterhouses						
14	Visit and inspection of cutting plants						
15	Visit and inspection of fresh meat processing laboratories						
16	Visit and inspection of meat processing laboratories						
17	<i>Post-mortem</i> inspection, according to Reg. CE 854/2004						
18	Sampling for bacteriological/chemical/ residue/ inhibitory tests on meat and/or food						
19	Sampling for meat and/or food examinations, according to the National Residue Monitoring Plan						
20	Sampling in cutting/production/processing plants of fresh/processed meat for official analysis						
21	Understanding of the aforementioned laboratory tests (chemical, microbiological, residue, inhibitory, etc.)						

22	Visit and inspection of ..... ..... ..... ..... (specify facility)						
23	Visit and inspection of ..... ..... ..... ..... (specify facility)						
24	Other: ..... (specify)						
25	Other: ..... (specify)						

### COMPANION ANIMAL INFECTIOUS DISEASES

No.	Skills acquired	Date	Year of Course	Facility	Student's signature	Full name of the activity supervisor	Signature of the activity supervisor
1	Collection and dispatch of samples for diagnostic purposes in breeding farms						
2	Application and reasoned assessment of diagnostic tests and their outcomes						
3	Definition of control plans with respect to infectious diseases						
4	Critical report on an animal population's health conditions and definition of the actions to be taken						
5	Biosafety evaluation in breeding farms						
6	Evaluation of critical issues for laboratory safety						
7	Handling of biological samples to use for immediate diagnostic testing						
8	Handling of samples to use for serological testing						
9	Serological techniques to be applied to the diagnosis of animal infectious diseases						
10	Critical interpretation of laboratory test results						
11	Final examination encompassing a critical reflection on diagnostic activities and their <i>in-situ</i> implementation, as well as on control and preventive measures (1 <sup>st</sup> part)						
12	Final examination encompassing a critical reflection on diagnostic activities and their <i>in-situ</i> implementation, as well as on control and preventive measures (2 <sup>nd</sup> part)						

PATHOLOGICAL ANATOMY							
No.	Skills acquired	Date	Year of Course	Facility	Student's signature	Full name of the activity supervisor	Signature of the activity supervisor
1	Acceptance of histological and cytological laboratory samples						
2	Procedures for the preservation and distribution of cells and tissues						
3	Trimming, processing and staining of histological samples						
4	Taking, transferring and staining of cytological samples						
5	Examination, description and reporting of histological samples						
6	Examination, description and reporting of cytological samples						
7	Necropsy examination of fish species						
8	4 <sup>th</sup> year skills assessment test						
9	Collection of individual medical records to conduct collateral and <i>post-mortem</i> examinations						
10	Performance of a basic necropsy						
11	Drafting of a necropsy report and conduction of <i>post-mortem</i> investigations						
12	Management of organic waste disposal (animal carcasses deriving from <i>post-mortem</i> examinations)						
13	5 <sup>th</sup> year skills assessment test						

EQUINE CLINICS AND REPRODUCTION							
No.	Skills acquired	Date	Year of Course	Facility	Student's signature	Full name of the activity supervisor	Signature of the activity supervisor
1	Safe management and handling of horses (stallion, dam, colt) inside and outside the stables						
2	Horse containment systems to be used before performing clinical procedures in safety conditions						
3	Horse identification for the completion of the horse passport						
4	Collection of medical records; clinical examinations; discussion of clinical cases						
5	Evaluation of the dental chart						

6	Evaluation of angular limb deformities or other limb abnormalities						
7	Application of limb bandages						
8	Evaluation of limb alignment and equine foot						
9	Horse orthopaedic examination						
10	Administration of intramuscular/ intravenous injections						
11	Application and interpretation of x-ray imaging						
12	Collection of biological samples (e.g. blood, faeces, horsehair, saliva, hair, urine, etc.) and preparation for laboratory testing						
13	Animal surgical preparation and instrument disinfection						
14	Ophthalmological examination						
15	Limb tendon sonography (distal regions); data interpretation						
16	Respiratory endoscopy/naso-esophageal probe						
17	Local anaesthetic routes						
18	Diagnostic and therapeutic approach based on clinical cases						
19	Rectal examination and transabdominal sonography						
20	Dissection, suturing and use of basic surgical techniques on anatomical preparation						
21	Monitoring of the oestrous cycle of the dam						
22	Artificial insemination of the mare (fresh and frozen semen)						
23	Semen collection and processing						
24	Clinical examination of newborns						

AVIAN PATHOLOGY							
No.	Skills acquired	Date	Year of Course	Facility	Student's signature	Full name of the activity supervisor	Signature of the activity supervisor
1	Management, containment and handling of poultry						
2	Sampling (blood samples, eye, oropharyngeal, tracheal and cloacal swabs) for microbiological testing. Sample preservation and transferring procedures to be used in laboratories						
3	Selection, interpretation and evaluation of the limits of the most appropriate tests for the microbiological diagnosis of infectious diseases in poultry						
4	Poultry necropsy examination; drafting of diagnostic reports; critical evaluation of the most appropriate tests for aetiological diagnosis						
5	Sampling (poultry carcasses' organs and tissues) for microbiological investigations. Sample preservation and transferring procedures to be used in laboratories						
6	Health management (biosafety measures, immunization plans and possible treatments) of poultry husbandry						
7	Clinical examination and evaluation of environmental and production performances in husbandry						
8	Necropsy examination in husbandry						
9	Skills assessment test						

MAPS CLINICS (DIURNAL)							
No.	Skills acquired	Date	Year of Course	Facility	Student's signature	Full name of the activity supervisor	Signature of the activity supervisor
1	General and comprehensive medical examinations in companion animals						
2	Completion of electronic clinical records						
3	Collection and preservation of biological samples (e.g. blood, faeces, urine, scabs and animal hair, cells, tissues, etc.)						
4	Complete blood count (CBC) test and reading of blood smears						
5	Urine examination						
6	Reading and interpretation of laboratory examinations (biochemical-hematic profile)						
7	Patient positioning for X-ray examinations						
8	Patient positioning for sonographic examinations						
9	Diagnostic imaging (e.g.						

	CT, CR, MRT): reading and interpretation of test results						
10	Interpretation of abdominal ultrasound examinations						
11	Interpretation of echocardiographic examinations						
12	Reading and interpretation of an ECG						
13	Hospitalised animal management – medicine administration						
14	Preparation of a suitable therapeutic plan; drug prescription, according to the existing regulation (former <i>Ricetta medica</i> )						
15	Medical record completion						
16	Prophylaxis management plan for infectious and invasive diseases						
17	Sedation and anaesthesia						
18	Monitoring of anesthetized patients						
19	Monitoring of patients regaining consciousness						
20	Basic principles for the sterilization of surgical materials						
21	Principles of aseptic surgery						
22	Collection of medical records and subsequent discussion with the contact person for the practical training						
23	Identification of appropriate diagnostic procedures						
24	Basic surgical techniques						
25	Pain assessment and pharmacologic interventions for pain management						
26	Management, containment and handling of small animals						
27	Clinical examination and group discussion of a clinical case of surgical interest						
28	Learning assessment – presentation and discussion of a clinical case – VET/08						
29	Learning assessment – presentation and discussion of a clinical case – VET/09						
30	Learning assessment – presentation and discussion of a clinical case – VET/10						

EMERGENCY SERVICE (OVUD) – NIGHT SHIFTS AND WEEKENDS							
No.	Skills acquired	Date	Year of Course	Facility	Student's signature	Full name of the activity supervisor	Signature of the activity supervisor
1	Clinical examination and application of practical skills (e.g. injections, venous catheterization, orotracheal intubation, curettage of small wounds, tissue reconstruction, bandage application, etc.)						
2	Participation in cases for which an immediate intervention is required, and/or complex cases requiring resuscitation manoeuvres/operations, or any other interventions						
3	Over-night hospital care (treatment and monitoring of animals hospitalised following specific medical, surgical and obstetric problems)						
4	Around the clock outpatient clinical activities and management of hospitalised animals (weekdays and public holidays)						
5	Clinical examination and application of practical skills (e.g. injections, venous catheterization, orotracheal intubation, curettage of small wounds, tissue reconstruction, bandage application, etc.)						
6	Participation in cases for which an immediate intervention is required, and/or complex cases requiring resuscitation manoeuvres/operations, or any other interventions						
7	Over-night hospital care (treatment and monitoring of animals hospitalised following specific medical, surgical and obstetric problems)						
8	Around the clock outpatient clinical activities and management of hospitalised animals (weekdays and public holidays)						
9							
10							

SWINES							
No.	Skills acquired	Date	Year of Course	Facility	Student's signature	Full name of the activity supervisor	Signature of the activity supervisor
1	Preparation of farrowing crates						
2	Synchronization and assistance during parturition						
3	Uterine exploration						
4	Cross-fostering in piglets (adoption)						
5	Peripartum emergency treatments						
6	Diagnosis of ultrasonographic pregnancy						
7	Body temperature measurement						
8	Animal welfare assessment						
9	Blood sampling						
10	Clinical examination – breeding unit						
11	Clinical examination – weaning unit						
12	Clinical examination – fattening unit						
13	Preparation of a clinical case						

## Clinical cases:

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Colibacillosis                  | <input type="checkbox"/> Splay-leg                          | <input type="checkbox"/> Haemorrhagic enteritis |
| <input type="checkbox"/> Pneumococcal meningitis         | <input type="checkbox"/> Tail necrosis                      | <input type="checkbox"/> Oedema disease         |
| <input type="checkbox"/> Glasser's disease               | <input type="checkbox"/> Tail biting                        | <input type="checkbox"/> Thin sow syndrome      |
| <input type="checkbox"/> Paralysis                       | <input type="checkbox"/> Ear biting                         | <input type="checkbox"/> Fat sow syndrome       |
| <input type="checkbox"/> Abortion                        | <input type="checkbox"/> Flank biting                       | <input type="checkbox"/> Gastroesophageal ulcer |
| <input type="checkbox"/> PRRS                            | <input type="checkbox"/> Ear-tip necrosis                   | <input type="checkbox"/> Urinary drainage       |
| <input type="checkbox"/> Flu-like syndrome               | <input type="checkbox"/> Pneumococcal arthritis             | <input type="checkbox"/> Malformations          |
| <input type="checkbox"/> Chronic atrophic rhinitis       | <input type="checkbox"/> Haemophilus parasuis Polyserositis | <input type="checkbox"/> Mycotoxins             |
| <input type="checkbox"/> Regressive atrophic rhinitis    | <input type="checkbox"/> Vulvar drainage                    | <input type="checkbox"/> Inguinal hernia        |
| <input type="checkbox"/> Shoulder ulcer                  | <input type="checkbox"/> Coccidiosis                        | <input type="checkbox"/> Umbilical hernia       |
| <input type="checkbox"/> Abscesses                       | <input type="checkbox"/> Neonatal diarrhoea                 | <input type="checkbox"/> Bleedings              |
| <input type="checkbox"/> Lameness                        | <input type="checkbox"/> Acute mastitis                     | <input type="checkbox"/> Cryptorchidism         |
| <input type="checkbox"/> Respiratory failure             | <input type="checkbox"/> Temporary hypogalactia             | <input type="checkbox"/> Early parturition      |
| <input type="checkbox"/> Actinobacillus pleuropneumoniae | <input type="checkbox"/> Exudative Epidermitis              | <input type="checkbox"/> Obstructed labour      |
|  | <input type="checkbox"/> Epidermitis                        | <input type="checkbox"/> Languid parturition    |

RUMINANTS							
No.	Skills acquired	Date	Year of Course	Facility	Student's signature	Full name of the activity supervisor	Signature of the activity supervisor
1	Health management evaluation						
2	Individual and in-farm clinical history taking						
3	Complete clinical examination (EOG, EOP)						
4	Collection of biological samples (e.g. blood, urine, faeces, etc.); identification of correct preservation and transferring procedures; definition of appropriate diagnostic tests.						
5	Reading and interpretation of laboratory examinations						
6	Evaluation and identification of a facility's immunization plan						
7	Electronic prescription, management and registration of medicines, according to the existing regulation						
8	Development and implementation of an adequate therapeutic plan						
9	Management and clinical examination of newborns						
10	Interpretation of company's management programs						
11	Fertility management evaluation and critical interpretation of reproductive indexes						
12	Application of assisted reproduction techniques (IA, ET, etc.)						
13	Manual and ultrasound pregnancy diagnosis						
14	Definition and electronic insertion of clinical reports						
<b>EVALUATION OF TRAINEESHIP ACTIVITIES (mandatory from the a.y. 2018/19)</b>							

N°	Evaluation of Traineeship activities per year of study	Yes/No	Date	Student's signature	Signature of the activity supervisor
1	2 <sup>nd</sup> year				
2	3 <sup>rd</sup> year				
3	4 <sup>th</sup> year				
4	5 <sup>th</sup> year				

Rep N.

Prot N.

## TRAINING AND ORIENTATION AGREEMENT

### *Between*

**The UNIVERSITY OF PADUA - ITALY** (the Promoting party), with offices in via VIII Febbraio n. 2, - 35122 Padua, tax code n. 80006480281, hereinafter called the "promoter", represented by Dr. ANDREA BERTI, born in Padova (ITALY), on 05/01/1963

### *and*

..... (*name of the Hosting organization offering the placement*), with head offices in ....., VAT NR....., hereinafter called the "Hosting Organization", represented by Dr. ...., born in .....on.....

### *given that*

To orient the professional decisions of students and graduates by giving them an opportunity to gain direct experience of the business world and to alternate between academic study and work as part of their educational process, the Promoting Party is entitled to promote training and orientation placements in the business world for the benefit of those who have already completed their compulsory education.

### ***It is hereby agreed that:***

#### **Art. 1**

The *Hosting organization*, according to their recruitment requirements and selection process, will accept the student or the newly graduated from the UNIVERSITY of PADUA (Italy) for an internship project defined in a Training and Orientation Project.

#### **Art. 2**

1. The training and orientation scheme may not be considered as a form of employment.
2. During the placement, the training and orientation activities are followed up and assessed by a tutor appointed by the promoter, who is responsible for the teaching and organizational aspects, and also by a tutor appointed by the hosting enterprise.
3. An individual training and orientation project will be developed for each trainee accepted by the hosting organization on the basis of this agreement; this project will indicate:
  - the name of the trainee;
  - the names of the university tutor and of the business organization's placement manager;
  - the objectives and methods for implementing the training, with indications of the period of time the trainee is to spend with the organization;
  - the business structures (factories, offices, departments, etc.) where the placement will be implemented;
  - details for identifying the relevant INAIL (accident) and third-party liability insurance coverage.

#### **Art. 3**

1. During the training and orientation placement, the trainee is obliged:
  - to carry out the activities specified in the training and orientation project;

- to comply with current regulations on matters of hygiene, health and safety in the workplace;
- not to divulge any confidential data, information or expertise concerning production processes and products that he/she may acquire during the placement.

#### **Art. 4**

1. The promoter insures the trainee against any accidents at work with the Italian National Institute for Insurance against Industrial Accidents - INAIL, and also against any third-party liability with insurance companies operating in the insurances sector. In the event of accident during the placement, the hosting organization undertakes to report the event - within the time established by current legislation - both to the insurance institutions (specifying the number of the policy signed by the promoter) and to the promoter.
2. The promoter undertakes to forward a copy of each training and orientation agreement to the appointed local authorities, to the appropriate local organization of the Ministry of Labor and Social Security responsible for matters of inspection, and also to the trade union representatives of the business organization concerned.

#### **Art. 5**

The hosting organization will ensure safe working conditions in the workplace in accordance with national law and with the European OSH - Occupational Safety and Health Framework Directive 89/391 of 12th of June 1989 and subsequent amendments. The Hosting Organization will:

- evaluate all the risks to the safety and health of the trainees, inter alia in the choice of work equipment, the chemical substances or preparations used, and the fitting-out of work places
- implement measures which assure an improvement in the level of protection afforded to trainees and are integrated into all the activities of the undertaking and/or establishment at all hierarchical levels
- take into consideration the trainee's capabilities as regards health and safety when he entrusts tasks to trainees; consult trainees on introduction of new technologies; designate trainee(s) to carry out activities related to the protection and prevention of occupational risks; take the necessary measures for first aid, fire-fighting, evacuation of trainees and action required in the event of serious and imminent danger; keep a list of occupational accidents and draw up and draw up, for the responsible authorities reports on occupational accidents suffered by his trainees; inform and consult trainees and allow them to take part in discussions on all questions relating to safety and health at work; ensure that each trainee receives adequate safety and health training.

This agreement will be valid for five years, starting from the date of its stipulation and will be valid only in the case where the Hosting Organization accepts the trainee coming from the University of Padova; if either party decides to withdraw, it must notify the other by registered letter.

Place and date \_\_\_\_\_

For the Hosting party

\_\_\_\_\_  
*The legal representative*

[stamp and signature] \_\_\_\_\_

For the University of Padua

**Dr. Andrea Berti**

*Research and Business Relations Area  
Manager*

[stamp and signature] \_\_\_\_\_

**UNIVERSITA' DEGLI STUDI DI PADOVA****TRAINING AND ORIENTATION PROJECT**

(Agreement nr. .... signed on .....

Registration No.:	Department:
Name of trainee:	
Degree Course in:	
born in:	on:
full address:	ph.:
tax code:	e-mail:

**Present situation (tick the appropriate box)**

- |   | yes                      | no                       |
|---|--------------------------|--------------------------|
| • University Student                        |                          |                          |
| • Attending a post-graduate course          | <input type="checkbox"/> | <input type="checkbox"/> |
| • Unemployed/ awaiting reallocation         | <input type="checkbox"/> | <input type="checkbox"/> |
| • Graduate Student on professional training | <input type="checkbox"/> | <input type="checkbox"/> |
| • Unemployed                                | <input type="checkbox"/> | <input type="checkbox"/> |
| • Graduated in.....                         | <input type="checkbox"/> | <input type="checkbox"/> |
| • disabled                                  | <input type="checkbox"/> | <input type="checkbox"/> |

**Compulsory training (preparatory to State exams) lasting .....(hours/cfu) for students taking degree courses in ..... at the Department of ....., as specified by the University rules on the matter.**

Name of Hosting organization: .....
Premises where the training takes place (factory, department, office): Please write full address and contact details .....
Street ..... No. ....
Postal Code (where available) .....
Town/City ..... Country .....
Tel..... Fax ..... E-mail .....

Working hours:
Period of training lasting nr ..... months; from ..... to .....

Academic Tutor (appointed by the promoter ):

Company Tutor (appointed by the business organization):

Insurance policies provided by the University of Padua

- Accident on the job managed by **INAIL** (*National Institute for Insurance against Industrial Accidents*)
- Civil liability policy Nr. 360846702 provided by **Generali Assicurazioni** insurance company.
- Accidents policy N. 360846692 provided by **Generali Assicurazioni**. Please note that this policy is already valid for regular students. Graduates who would like to have it should pay € 8,50.

Tick the box: **YES**  (enclose the original payment receipt to the present Training Agreement) **NO**

Training aims and methods:

Benefits offered to the trainee:

The trainee undertakes:

- to comply with the recommendations of his/her tutors and report to them on any organizational requirements or other needs;
- not to divulge any confidential information concerning production processes, products, or other information relating to the business organization, both during and after the placement;
- to comply with the regulations of the business organization and with legal requirements concerning hygiene and safety in the workplace.

Date,.....

read, approved and signed by the Trainee .....

signed by the Promoter .....

stamped and signed by the Hosting Organization .....

## 2018 PERIODICAL REVIEW REPORT ON THE DEGREE PROGRAMME

**Name of Degree Programme (single-cycle degree) in:** VETERINARY MEDICINE

**Class:** LM-42

**Location:** University of Padova - Campus of Agripolis - Legnaro

**Reference Department:** Animal Medicine, Production and Health - MAPS

**Coordinating School:** Agricultural Sciences and Veterinary Medicine

**First academic year of activation:** 1992-93

### Group for Accreditation and Evaluation (GAV)

Members

Position	Names
President of Degree Programme	Prof. Matteo Giancesella
Referent professor for the evaluation	Prof. Paolo Carnier
Referent professor for the evaluation	Prof. Flaviana Gottardo
Referent professor for the evaluation	Prof. Lieta Marinelli
Referent professor for the evaluation	Dr. Maria Luisa Menandro
Referent professor for the evaluation	Prof. Antonio Mollo
Referent professor for the evaluation	Dr. Alessandra Piccirillo
Referent professor for the evaluation	Dr. Helen Poser
Student representative	Mr Alessandro Calore
Student representative	Ms Giuditta Tilli
Stakeholder	Dr. Chiara Bottaro
Stakeholder	Dr. Giuseppe Favaro

The Group for Accreditation and Evaluation (GAV) acted as follows in order to discuss and draft the topics reported in the sections of this Review Report:

- prepared a special section within the Moodle platform dedicated to the GAV (visible to all the interested parties of the Degree Programme), by the President of the Degree Programme, containing all the documents necessary for the drafting of the Periodical Review Reports;
- 12 February 2018, GAV meeting: reading and discussion of the Periodical Review Reports guidelines, document definition, organization and subdivision of work in sub-groups for each section;
- following meetings between the sub-groups involved in the drafting of the individual sections;
- 26 February 2018, GAV meeting: reading and revision of the sections prepared by the individual work sub-groups;
- subsequent review phase (by e-mail) of the overall document.

Approved by the Study Programme Board on **14 March 2018**

Approved by the Board of the Reference Department on **20 March 2018**

# 1 - DEFINITION OF THE CULTURAL AND PROFESSIONAL PROFILES AND STRUCTURE OF THE DEGREE PROGRAMME

## 1- a SUMMARY OF THE MAIN CHANGES OBSERVED FROM THE A.Y. 2013/14

*Describe the main changes that have occurred since the A.Y. 2013/14, also in relation to the enhancement actions implemented in the Degree Programme.*

*In these fields an analysis of the past must be conducted. In particular, it is necessary to:*

- *Consult the previous annual reviews*
- *List the critical issues that have emerged over the years and which actions have been taken. Indicate any actions that did not lead to the desired results.*
- *List the strengths of the Degree Programme and what actions have been implemented to make them further emerge.*

*In the analysis of the situation and in the comments to the data, report only the data strictly essential for the analysis. Avoid inserting entire lists, data sets, tables and graphs.*

Despite the positive feedback and evaluations related to the training of the veterinarians at the University of Padova (see Sections 2-a and 3-b) during the last A.Y., the GAV of the Degree Programme focused its attention on those aspects that can be improved. These are mostly related to the cultural and professional profile of the veterinarian, starting from the training standards required to obtain the approval and accreditation of the Degree Programme by the *European Association of Establishments for Veterinary Education* (EAEVE) ([www.eaeve.org](http://www.eaeve.org)).

In addition to these priority aspects, the educational framework of this Degree Programme must meet the guidelines of the *Office International des Epizooties* (OIE) and the inputs from a continuously evolving veterinary medical profession.

The critical issues emerged during the A.Y. are reported in various documents such as: meetings with the different parties (minutes 24/06/2016), annual reviews, joint commissions reports and results of students' opinions (as for those activities for which feedback is not compulsorily, such as traineeships), results of annual assemblies for the improvement of teaching. The critical issues concerned: the distribution of the teaching load; excessive training load; activities as a traineeship; problems (technical, cultural, contingent, training) connected to the Y path ("Clinical" path and "Food safety" path); timetable overlaps between frontal teaching activities and traineeship; lack of specific training activities for certain courses (especially clinical areas).

On the basis of these considerations, the entire Degree Programme has been revised, within the limits established by current legislation, thus establishing a new educational system active from the A.Y. 2017-18. The procedures for review, data analysis, objectives and improvement actions will be detailed in Section (4) of this periodical Review Report.

To maximize the number of students who can take advantage of the enhancements made thanks to the new system, the first three years are allowed to be enrolled from the first year of its activation. In this way, starting from the A.Y. 2019-20 the new system will be fully operational for all the five years of the Degree Programme. This is furthermore the year in which the EAEVE has scheduled its visit for the evaluation and accreditation of the Degree Programme.

## 1-b ANALYSIS OF THE SITUATION ON THE BASIS OF THE DATA

*Describe the main problems identified, the challenges, the strengths and the areas to be improved based on the analysis of the period under review and on the perspectives of the following period (no constraints on the length of the text).*

### **Main elements to be observed:**

- *Form SUA-CdS: sections A1.a, A1.b, A2, A2.a, A2.b, A4.a, A4.b, A4.c, B1.a*

### **Recommended points for reflection:**

1. Are the premises - cultural and professional aspects - that led to the declaration of the type of the Degree Programme still valid?
2. Are the needs and potentials of development (humanistic, scientific, technological, health or socio-economic) of the relevant sectors satisfied, in relation to the subsequent study cycles, if any?

3. Have the main parties interested in the outgoing cultural/professional profiles (students, teachers, scientific and professional organizations, representatives of the world of culture, of production, including at international level, in particular in the case of universities for foreigners) been identified and consulted, both directly and through the use of sector studies?
4. Have the reflections that emerged from the consultations been taken into consideration in the planning of the Degree Programme, above all the reference to the employment potential of the graduates and to the possible continuation of studies in subsequent degrees?
5. Are the specific training objectives and the expected learning outcomes, in terms of knowledge, skills and competences - even if transversal - coherent with the outgoing cultural and professional profiles, also with regard to the methodological aspects related to the logical-linguistic elaboration? Have they been implemented clearly for the areas of learning?
6. Do the professional profiles, employment opportunities and prospects clearly take into account the different working destinies of graduates?
7. Is the training offer still considered adequate to achieve the objectives? Is it updated in its contents?

At that point it will be possible to make an adequate assessment of the effects of the improvements made. The new disciplines have been included in the new curriculum in the specific areas of learning, as reported in the 2017 SUA Form.

A growing demand for both cultural and operational exposure to the research world emerged from interviews with students. Consequence of this is the limited attractiveness of the doctoral school in Veterinary Sciences. A possible proposal, currently under discussion to overcome this limit, involves the design of a fourth optional path in "Scientific Research".

#### 1-c OBJECTIVES AND IMPROVEMENT ACTIONS

*Describe the interventions deemed necessary according to the changed conditions and the identified critical elements, the challenges and actions aimed at improving. The objectives should have a multi-year focus and refer to substantial aspects of the students' training and experience. Specify through which actions you believe you can reach your goals.*

The positive effects of the redistribution of teaching loads in the five years are already visible, however the ability to assess the actual achievement of the set objectives, the improvements made and any critical issues can only occur after at least two cohorts will have completed the process.

## 2 – STUDENTS' EXPERIENCE

### 2- a SUMMARY OF THE MAIN CHANGES DETECTED FROM THE A.Y. 2013/14

*Describe the main changes that have occurred since the A.Y. 2013/14, also in relation to the improvement actions implemented in the Degree Programme.*

*In these fields an analysis of the past must be conducted. In particular, it is necessary to:*

- *Consult the previous annual reviews.*
- *List the critical issues that have emerged over the years and which actions have been taken.*
- *Indicate any actions that did not lead to the desired results.*
- *List the strengths of the Degree Programme and what actions have been implemented to make them further emerge.*

*In the analysis of the situation and in the comments to the data, report only the data strictly essential for the analysis. Avoid inserting entire lists, data sets, tables and graphs.*

The single-cycle Degree in Veterinary Medicine at the University of Padova has seen a steady increase in the number of pre-enrolled students enrolled in the admissions test, and is among the first to close the cohort of enrolment by academic year. These findings support the fact that for years the degree programme in Veterinary Medicine of Padova has been at the top of the national rankings (CENSIS evaluations, outcomes of the VQR evaluations). The majority of the indicators reveal a more than satisfactory overall trend, often similar to that of the geographical area and in many cases higher than the national average. The educational indicators all indicate an excellent level of career regularity with a high percentage of enrolled students graduating within the regular duration of the degree programme - higher than the average of the geographical area and the national average.

However, the specific nature of a degree programme remains, with a five-year duration, a significant teaching load and consequent repercussions on the timing of graduation. As detailed in Section 5-b, In the face of limited feedback, in terms of completed questionnaires (from the 2017/18 academic year evaluation is mandatory for students), the results of the evaluations indicate more than satisfactory values and a constant trend of improvement. The satisfaction of undergraduates and graduates (Alma Laurea data) shows to be significantly positive. The surveys conducted by Alma Laurea on single-cycle postgraduates in UniPd Veterinary Medicine at 3 and 5 years post-graduation indicate a high employment rate and a better economic condition than the national average. Despite the good performances of the Degree Programme, the possibility of optimizing the students' training path is crucial to the GAV. The aim is to allow students to complete their studies respecting the regular legal of the programme. For this reason, during the years corrective actions have been taken to facilitate the overcoming of the block in the transition from the first to the second year and to reduce the teaching load in the third year. The first measure came into force in A.Y. 2014-15. The first data available, relating to a single academic year (see RdR 2016) showed an improvement in the situation. The second measure was implemented in the A.Y. 2017-18. No data is yet available, thus definitive conclusions about its effects cannot be drawn. Over time the conviction that the Degree Programme as a whole needs restructuring matured, therefore a new system started in the A.Y. 2017-18 (see Sections 1 and 4).

With regard to the quality of teaching, over the years several measures have been taken with the aim of improving the flow of information, developing and standardizing the syllabi, verifying the teaching contents of the individual courses in order to avoid redundancy or fill in training shortages, and improve the quality of the teaching material made available to students (see RdR 2016). Some issues, i.e. flow of information and drafting of the syllabi, require considerable effort both from students and professors. Considering the review of the whole Degree Programme, no monitoring system has yet been standardized.

Although there is a website dedicated to the Degree Programme, it follows the standardized layout provided by the University, thus making it complex to present the programme's specific features (such as traineeship) and to disseminate new information (on courses, seminars, direct communications to students) through a news portal.

### 2-b ANALYSIS OF THE SITUATION ON THE BASIS OF THE DATA

*Include the main problems identified, the challenges, the strengths and the areas to be improved as emerged from the analysis of the period under review and the prospects for the following period.*

**Main elements to be observed:**

- Forms on the teachings
- SUA-CDS: sections A3, B1.b, B2.a, B2.b, B5

**Recommended points for reflection:**

**Guidance and tutoring**

1. *Are inbound and outbound orientation activities in line with the cultural and professional profiles drawn up by the Degree Programme? Examples: preparation of incoming orientation activities in line with the cultural and professional profiles drawn up by the Degree Programme; presence of effective tools for self-assessment of the recommended input knowledge. Do they promote student awareness of choices?*
2. *Do incoming and ongoing guidance activities take into account the results of career monitoring?*
3. *Do the initiatives to introduce students to the labour market take into account the results of the monitoring of outcomes and employment prospects?*

**Knowledge required to enter and recovery of deficiencies**

4. *Is the required or recommended knowledge clearly identified, described and advertised? Is the syllabus drawn up and properly advertised?*
5. *Has possession of the fundamental entry knowledge been effectively verified? Are any shortcomings identified on time and communicated to the students?*
6. *Are there any support activities planned or in progress? E.g. activities organized to integrate and consolidate the recommended entry knowledge, or, in the case of second level degrees, interventions to encourage the integration of students from different bachelor degrees and from different universities.*
7. *For the three-year and single-cycle degree programme: are the achievement gaps identified and communicated to the students? Are initiatives implemented to fulfill the achievement gaps?*
8. *For the second-cycle degree programmes, are the curricular requirements for access defined, publicized and verified? Is the adequacy of student's preparation verified?*

**Organization of flexible paths and teaching methods**

9. *Does the teaching organization create the conditions for student autonomy (for choice making, critical learning, in the organization of their study). Does the academic staff provide adequate guidance and support? (E.g. meetings are organized to assist in the choice between possible curricula, availability of professor-guide for the options related to career plan, locations and times for study or self-study activities self-managed by the students, etc.)*
10. *Do the curricular and support activities use flexible teaching methods and tools, tailored to the specific needs of different types of students? (E.g. there are support tutors, knowledge deepening courses, "honours" courses, creation of paths dedicated to particularly motivated students that foresee faster rhythms and greater in-depth analysis, etc.)*
11. *Are there any support initiatives for students with special needs? (E.g. off-site students, foreigners, workers, disabled people, students with young children, etc.)?*
12. *Is the programme accessible by disabled students?*

**Internationalization of teaching**

13. *Are initiatives planned to enhance student mobility, to support study periods and traineeships abroad (including those for Erasmus)?*
14. *With particular regard to international programmes, is the international dimension of teaching actually realized, with reference to foreign professors and/or foreign students and/or joint, double or multiple degrees in agreement with foreign universities?*

**Learning assessment modality**

15. *Does the degree programme clearly define the progress of the intermediate and final assessments?*
16. *Are the assessments methods adopted for the individual courses adequate to ascertain the achievement of the expected learning outcomes?*
17. *Are the methods of verification clearly described in the course forms? Are they clearly communicated to the students?*

## **Guidance and tutoring**

### **Incoming guidance activities and tutoring**

The School of Agricultural Sciences and Veterinary Medicine organizes the guidance and tutoring activities for the degree programmes it coordinates, in collaboration with people in charge of guidance and mentoring. In addition to the initiative "*Choose your tomorrow*", held every year in February, Open Days are scheduled in July. Information and activities are also provided at the request of high schools.

The Degree Programme exercises a strong attraction towards high school students, as indicated by the high number of candidates who sign up for the admission test (<http://www.agrariamedicinaveterinaria.unipd.it/corsi/mv>).

A critical aspect regarding the national recruitment system of the Degree Programme in Veterinary Medicine is that while it certainly selects the most prepared students, it is not able to evaluate the attitude and the motivation towards the veterinary medical profession. For this reason, the entry guidance and the one implemented during the first months of class is aimed at understanding the role and tasks that the veterinary surgeon performs in the professional life. With the same purpose, from the A.Y. 2013-14 during the orientation days "*Choose your tomorrow*", the president of the Order of Veterinarians of Padova was invited and on some occasions a film produced by FNOVI was shown: "*Life as vets*", to give a more complete and realistic view of the complexity of the veterinary profession.

Moreover, during the orientation days, students of the Degree Programme who perform tutoring activities are present at the info-point dedicated to the course itself.

### **Ongoing guidance activities and tutoring**

In the last few years, in order to test the motivational level of the student, practical/demonstration day has been organized to make first-year students more aware of what they will do during their studies and on lesser-known aspects of the veterinary profession (e.g.: visit to the necroscopy room and farm). In recent years, this activity has been complex as students enrol on the basis of the ranking, from October to January, thus some may be unable to participate.

At the beginning of the lessons in October a welcome day is organized (Welcome Day) during which the President of the School, the President of the Degree and of the Departments involved together with the student representatives, explain to the freshmen the organization, the administrative management and the specificities of the programme (see fulfilment of the OFA or the peculiarities of the traineeship). During the week for the improvement of teaching, former students of the course, already entered in the labour market, are invited to bring their experience to their future young colleagues.

Within the scope of the traineeship, i.e. practical activity in small groups at the presence of the professor, activities that the student must perform with highly specialized external professionals are included. This grants them the opportunity to learn about the many areas of the veterinary profession. These contacts and experiences can be useful when choosing future employment. The same traineeship activities also allow the student to improve the dexterity considered very important during the assessment phase at the State Exam to obtain the professional qualification.

Students of the Degree Programme or PhD students carry out tutoring activities at the School of Agricultural Sciences and Veterinary Medicine with pre-established schedules. Among the tasks of the tutors, reception, organizational support for study groups and re-orientation on the choice made at the time of enrolment should be noted.

### **Outbound guidance activities**

For the students of the 4<sup>th</sup> and 5<sup>th</sup> year, orientation meetings are organized on employment opportunities, mostly in the areas of the less-explored veterinary professions ("*At the borders of teaching*") and on post-graduate training

opportunities.

The experience of the post-graduate traineeship is also encouraged both in national and foreign structures through the Erasmus Plus programme.

Initiatives to introduce students to the labour market, such as Career Day and trainings on soft skills, are carried out on an annual basis taking into account the employment prospects of graduates and requests from the labour market.

A monitoring system has not yet been developed to connect the training activities provided and the type of employment the graduate in Veterinary Medicine will find. The Alma Laurea data, although not exhaustive, show a very high degree of satisfaction among graduates, and this indirectly confirms that the training provided is consistent with the future employment. In the planning of the training activities and the revision of the contents of the courses, the GAV and the interdepartmental teaching commission for the revision of the system (CDRO) have always taken into consideration the possible employment opportunities. Furthermore, using data from the Nomisma-FNOVI survey (<https://www.fnovi.it/sites/default/files/La%20professione%20medico%20veterinaria%20-%20FNOVI%20-%20Aprile%202014%20-%20281%20-%2029.pdf>), which highlighted the labour market demand of veterinarians in many sectors of the profession other than pet clinics (in particular those relating to the figure of the veterinarian in food safety), allowed many of the guidance activities to be carried out with the aim of increasing the sensitivity of students towards these professional fields.

The continuous discussion among the members of the GAV and the working groups with the stakeholders has allowed to organize many of the initiatives mentioned in the previous points to train veterinarians who can enter faster and with better economic gratification in the labour market. However, there is no objective tool to evaluate the result. In fact, the data collected by Alma Laurea does not allow this type of analysis, since it is a generic questionnaire to be used in all degree programmes (minutes meeting with stakeholders on 24/06/2016).

To enrol in the degree programme in Veterinary Medicine it is necessary to pass the admission test, managed by the MIUR, having the degree programmes a programmed number established at national level.

The knowledge required or recommended at the entrance is verified with an admission test, advertised on the websites well in advance. Students have the opportunity to practice on previous versions available online on the MOODLE platform after registering for the test itself.

Students who, in the admission test, do not answer correctly to the half plus one of the questions of Biology, Chemistry, Physics-Mathematics are assigned additional training obligations (OFA). To pass the OFA students have at their disposal various support tools: self-assessment quiz, teaching material, tutor after having contacted the tutoring service. The data analysed in the annual Review Report showed that the students succeed in overcoming all the OFAs in the foreseen period (see *Review Report 2016*) suggesting therefore that the support actions are effective.

#### **Organization of flexible paths and teaching methods**

The acquisition of the ECTS linked to the educational offer (optional courses and traineeship excluded) is organized in such a way that each of them corresponds to a part delivered in the classroom (10 hours) in the presence of a professor, while in the remaining part of hours (15) the student engages with autonomous in-depth studies. For the optional courses (see Section 4-b), awarded 15 ECTS, each individual ECTS consists of 15 hours in the presence of the professor and 10 of individual study. In the traineeship activity, the entire ECTS (25 hours) is carried out in the presence of the professor who supervises the activity of a group consisting of a maximum of 4 or 5 students. This management of teaching is in line with what required by EAEVE to recognise the Degree Programme.

With regard to the activity of guidance and support to students, the following activities are implemented:

- meeting of the President of the Degree Programme with the students to explain the training path and the

optional choices;

- meetings with student representatives to prepare the events of the week for the improvement of teaching;
- organization of the annual assemblies of students and professors during the teaching improvement week;
- provision of the tutoring service carried out exclusively by competent and trained students or PhD students.

Students with specific needs can ask first of all the tutors who work at the School.

Foreign students, as well as tutors, are supported by the School's staff and International Office.

Access to training materials is guaranteed by the use of the School's Moodle platform, as indicated by the syllabi of each course.

The Degree Programme is structured to give the same training opportunities to all students, in compliance with national requirements and EAEVE recognition. However, as part of the "I-moves" project, which involves a period of study abroad in very prestigious venues for veterinary medicine, a meritocratic selection of participants is made (acquired ECTS, proficiency in English) as the requests normally exceed the available spots. At University level, the most deserving students (in terms of registered ECTS and grades obtained) can receive scholarships of 1,000 Euros to study abroad (or integration to the Erasmus scholarship), internships and traineeships in Italy or abroad and tutoring activities (for 50 hours). There are usually 8 students who each year receive this award, called "*Mille e una lode*". For non-resident students, both Italians and foreigners, residences managed by ESU, a Regional Company for the Right to University Education, are also available.

The Degree Programme has compulsory attendance and, in some years of the course, the teaching load (both frontal and exercise and training) is very intense - limiting the enrolment of working students or those with young children. Registration of students with severe physical disabilities is certainly very difficult due to the fact that the Degree Programme in Veterinary Medicine, because of its specific characteristics, provides also very complex training activities (in terms of organization and commitment required) and in environments not always easily accessible (e.g.: stables, slaughterhouses, etc.). However, the educational facilities of Agripolis have been modified to grant access of students with physical disabilities.

The support activities for students with specific learning needs and disabilities (DSA) are managed by a central administration service and in each department a referent professor is nominated. He/she follows the support activities for the individual degree.

Students who present diseases that are incompatible with practical activities (e.g.: allergies towards some animals, etc.), following the presentation of a medical certificate, are exempted from the activity.

### **Internationalization of teaching**

The School of Agricultural Sciences and Veterinary Medicine provides assistance to the Degrees for activities related to: publicizing the various international mobility initiatives; openings of new flows; administrative support linked to the reception of incoming students; administrative support for outgoing student recognition practices; administrative support for all EAEVE-related practices. The presence of an International Office is even more effective given that the headquarters of the Degree Programme are at the Campus of Agripolis, thus on-site services to students can be offered.

Furthermore, in order to encourage Erasmus mobility, regular meetings are held to present all the active flows for the Degree Programme. In the last editions of the Assembly held during the Week for the Improvement of Teaching, *ad hoc* meetings were organized on the topic, with a presentation of the responsible for the Erasmus service of the School of Agricultural Sciences and Veterinary Medicine and with talks from the students who had participated in the initiative.

After the conclusion in 2014 of a first four-year cycle of a transatlantic exchange training project (VILP - *Veterinary International Leadership Programme*), which involved the Texas A&M and Tufts University (USA), a new project started in 2014 (I-moves) with the same US partners, to which the Colorado State University (USA) and the

University of Sydney (AUS) have progressively been added. This project foresees a Workshop in Food Safety and Public Health carried out in Italy, while students participate in Clinical Rotations activities in the foreign branches. All these projects have been funded by the Departments of MAPS and BCA and co-financed by the University.

#### **Modality learning assessment**

The Degree Programme has prepared a perpetual calendar to clearly define the planning of the final checks (of modules and courses). The exam timetable is available on the School website as early as October, or at the beginning of the first semester/quarter classes.

As for ongoing checks, each professor can programme them, but they must be entered in the syllabus and communicated to the students at the beginning of the classes, to avoid overlapping with other courses.

## **2- c OBJECTIVES AND IMPROVEMENT ACTIONS**

*Include the interventions deemed necessary according to the changed conditions and the identified critical elements, to the challenges and actions aimed at improving. The objectives must have a multi-year focus and refer to substantial aspects of the students' training and experience. Specify through which actions you believe you can reach your goals.*

## **3 - RESOURCES OF THE DEGREE PROGRAMME**

### **3- a SUMMARY OF THE MAIN CHANGES OBSERVED FROM THE A.Y. 2013/14**

*Describe the main changes that have occurred since the A.Y. 2013/14, also in relation to the improvement actions implemented in the Degree Programme.*

*In these fields an analysis of the past must be conducted. In particular, it is necessary to:*

- *Consult the previous annual reviews*
- *List the critical issues that have emerged over the years and which actions have been taken.*
- *Indicate any actions that did not lead to the desired results.*
- *List the strengths of the Degree Programme and what actions have been implemented to make them further emerge.*
- *In the analysis of the situation and in the comments on the data, report only the data strictly essential for the analysis. Avoid inserting entire lists, data sets, tables and graphs.*

Describe the main changes that have occurred since the A.Y. 2013/14, also in relation to the improvement actions implemented in the Degree Programme.

In the previous A.Y. critical issues were identified regarding the coverage of the wireless network of teaching facilities and, based on the reports of the joint committee, a lack of spaces dedicated to students' individual study and the limited space for teachers coming from other locations emerged.

The wireless network has been improved with the activation of the Agripolis Campus network and the Eduroam network.

As for the space issues, a partial resolution was achieved with the implementation of the new building plan - unfortunately not yet completed - while spaces at the Benedictine Court, located in a position adjacent to the Campus of Agripolis, were rented.

There were also shortages related to the number and capacity of laboratory spaces for the exercise activity connected to the degree programme, overcome by shifts and sequential changes to the new system.

The repetition of classes, whilst granting a better quality of teaching to the students, has led to an increase in teaching load provided by the professors.

The data taken from the 2016 graduates reported by Alma Laurea indicate general satisfaction for the following items: "Assessment of the classrooms", "Evaluation of the computer stations", "Evaluation of the equipment for the teaching activities", satisfaction above the University average.

There are however some deficiencies concerning the structures, the professors and the Technical Administrative Staff (PTA) for the carrying out of the traineeships.

As indicated in the previous sections, the Degree Programme in Veterinary Medicine is subject to a control of the quality of teaching by the EAEVE, whose approval is necessary for the MIUR to agree to activate the course.

In order to meet the European standards required by the EAEVE, the course must guarantee practical activities of traineeship to small groups of students, in relation to different SSDs involved in the Degree Programme.

The activation of the traineeship was possible thanks to the significant commitment of the teaching, administrative and technical staff. It has also been possible thanks to the use of structures such as:

- the necroscopy room;
- the health facilities of the University Centre called the Educational University Veterinary Hospital (OVUD), where a first aid service has been activated for small animals to which trainees have access;
- the educational stable of the Agricultural Research Farm L. Toniolo;
- laboratories for the single research areas.

The traineeship then led to various critical issues related to the staff involved and the necessary structures to carry out this activity, which was partly covered by the activation of agreements with various structures and professionals present in the territory.

The support provided by OVUD and the Experimental Agricultural Farm to the teaching activities of the Programme, despite having high standards, is lacking of some specific features, both in terms of structure and staff.

In particular, it is necessary to activate a 24-hour emergency service for horses, an intervention service on request for ruminants and pigs, with the relative adaptation of the structures and the identification of structures designed to accommodate large animals with infectious diseases.

The requests for structural adjustment plus teaching and administrative staff, essential for the maintenance of the Degree Programme, were submitted to the central administration of the University of Padova (letter sent in July 2017 to the Rector, Vice Rector, Vice Rector for Education and Vice Rector for Buildings and Safety).

### 3- b ANALYSIS OF THE SITUATION ON THE BASIS OF THE DATA

Include the main problems identified, the challenges, the strengths and the areas to be improved based on the analysis of the period under review and on the perspectives of the following period.

#### Main elements to be observed:

- Form SUA-Degree Programme: B3, B4, B5.
- Referent Professor.
- indicators on the qualification of the teaching staff (monitoring indicators iC8).
- student/teacher ratio of individual courses (monitoring indicators iC27 - iC28).
- Resources and services available to the Programme.

#### Recommended points for reflection:

##### Staffing and qualification of academic staff

1. Are the professors adequate, in terms of number and qualification, to support the needs of the Degree Programme, taking into account both the scientific contents and the teaching organization? For the evaluation of this aspect, for all the degrees, the share of full time professors belonging to the basic SSD or classified with a value of 2/3 is considered. For telematic Degrees only, it is also necessary to take into consideration the proportion of tutors in possession of a PhD, even with a reference value of 2/3. If these quotas are lower than the reference value, have the members of the Degree Programme promptly informed the University, and foreseen the application of corrective measures? Is the link between the scientific competences of professors (ascertained through the monitoring of the research activity of the SSD to which they belong) and their relevance to the teaching objectives enhanced? (E.g. favouring the continuity of teaching with Research Doctorates and the participation of students in the scientific activities of the Departments concerned, proposing introductory lessons on the most important research topics)
2. Are there problematic situations related to the student/professor ratio? For the evaluation of this aspect, the indicator for the hourly student/professor ratio is considered, in total and for the first year, considering twice the reference number of the class (standard cost). If this threshold is exceeded, have the members of the Degree Programme promptly informed the University, and foreseen the application of corrective measures? (E.g. It is to be considered good practice the splitting into several channels to achieve double the number of reference students enrolled in the module (DM 987/2016).
3. Is the link between the scientific competences of the professors (ascertained through the monitoring of the research activity of the SSD to which they belong) and their relevance to the educational objectives enhanced? Examples: care of the teaching continuity with the Research Doctorates, where present; presence of activities aimed at the participation of students in the scientific activities of the Departments concerned, proposal of introductory lessons on the research topics of major importance, etc.)
4. Are there initiatives to support the development of teaching skills in the various disciplines? (E.g. training for teaching, mentoring in the classroom, sharing of methods and materials for teaching and evaluation, etc.)

##### Staff provision, facilities and support services for teaching

5. Do the educational support services (Department, University) ensure effective support for the activities of the Degree Programme? [This point is not considered for the evaluation of the Degree Programme but serves as a confirmation of the requirement of Location R1.C.2]
6. Is there any activity to verify the quality of the support provided to professors, students and external interlocutors? [This point is not considered for the evaluation of the Degree Programme but serves as a confirmation of the requirement of Location R1.C.2]
7. Is there a planning of the work done by the technical-administrative staff, accompanied by responsibilities and objectives and that is consistent with the training offer of the Degree Programme?
8. Are the teaching facilities and resources available adequate? (E.g. libraries, teaching aids, IT infrastructures, etc.)
9. Are the services easily accessible by students?

During the Week for the Improvement of Teaching the School of Agricultural Sciences and Veterinary Medicine, in agreement with the Presidents of the Degree Programme of the School itself, organized a seminar on Experiential learning on the theme of innovation of teaching methodologies through the experiential approach the knowledge of learning processes and the transfer of acquired elements in one's professional context. During the academic year 2017/18 a Residential path, aimed at professors, as a contribution to the improvement and modernization of teaching was developed in order to create a community of teachers called Faculty Learning Community (FLC) to share experiences of good teaching practice and promote educational innovation among colleagues. The 100% academic staff of the Degree Programme belongs to the basic SSD and characterizing the class with a total number of students/ professors per year, in line with the standard cost of the class. In addition, requests for compliance with European standards to which the course responds (EAEVE) require 70% of the teaching staff to have a degree in Veterinary Medicine and to evaluate their scientific competences. The qualification of the scientific competences of the professors with respect to the pre-established teaching objectives is pursued in all phases by the Degree Programme, with particular relevance in the provision of traineeship activities that provide highly qualified professional training, updated to the latest scientific standards. The scientific competences of the professors involved are evident from the results of the VQR evaluation, which sees the Departments MAPS and

BCA, (to which almost all the professors of the Veterinary Medicine course belong) classified among the departments of excellence. The relevance of the integration between scientific and teaching qualification of staff results in the presence of a Doctorate Course in Veterinary Sciences whose teaching staff guarantees the standards required for accreditation.

As further evidence of the link between scientific and teaching activities of academic staff, it is important to note that almost all the research activities at the base of the students' Final Tests are carried out within the Departments to which most of the Degree Programme professors belong (MAPS-BCA).

The teaching support activities of the Degree Programme see the planned involvement of several structures: the School Teaching Office (active since 2013), the Student Offices, the Department Offices, the Multifunctional Pole, the International Office, the Offer Office training and quality assurance.

After an initial phase of difficulty in identifying and integrating the various skills between the School, Departments and the University, the School's activity has reached the expected support and coordination.

The activities provided by the administrative staff related to the School are programmed following the programmatic indications coming from the Office offering training and quality assurance, consistent with the indications of the School Services Charter approved by the Departments concerned. In order to promptly inform the various parties of the planning of the activities, the School Council meets in an "extended form" involving all the Presidents of the Degree Programme.

In addition to these educational offices, the Degree Programme avails itself of the OVUD, the educational farm and the necroscopy room, to guarantee students practical activities in the veterinary field. The coordination of the administrative staff related is entrusted to the Directors of the aforementioned centres and to the Directors of the Departments of afference (the MAPS Department, engaged in the OVUD, has dedicated part of its administrative staff, due to the absence in OVUD of dedicated staff). A part of the activities is also carried out at affiliated structures, revalued and reduced in number following the modification of the regulations, on the basis of the problems highlighted by the students (results of the student evaluations and summarized at the meetings for the improvement of teaching).

The availability and appropriateness of classrooms and laboratories is part of the requirements verified annually in the SUA. The course uses, as reported in the SUA form - in specific item B4 Infrastructures - classrooms with adequate capacity for frontal teaching, spaces and structures to carry out training activities linked to the courses (classrooms: biology, microscopy, biotechnology, biological veterinary chemistry, 2 computer science rooms, anatomical museum), a necroscopy room and OVUD facilities (for the critical aspects regarding the structural aspects of OVUD and educational stable as mentioned above). The Agripolis campus also offers 7 study rooms and a freely accessible library.

The various services in support of students are detailed in the SUA and have never been identified as critical in any of the evaluations in our possession.

A criticality regarding the quality of the services offered to students lies in the facilities (e.g.: bar, library, study rooms, special classrooms) that are inaccessible to students outside of class time (e.g.: late afternoon, evenings, weekends and Holiday periods).

### **3- c OBJECTIVES AND IMPROVEMENT ACTIONS**

*Include the interventions deemed necessary according to the changed conditions and the identified critical elements, to the challenges and actions aimed at improving. The objectives must have a multi-year focus and refer to substantial aspects of the students' training and experience. Specify through which actions you believe you can reach your goals.*

Initiatives have been taken to address the critical issues and we intend to proceed in such direction. In particular the requests presented to the University managers for the structural needs of administrative and academic staff, already submitted to the Central Administration of the University of Padova, will be reiterated. In relation to structural weaknesses, we are waiting for the new building plan to be implemented, which, with the construction of the new building, would heal part of the structural weaknesses highlighted.

Particularly critical are the needs of administrative/teaching staff and structures and for performance of the training activity required to meet the European standards set by the EAEVE for the international recognition of the Degree Programme. The non-formal and all-inclusive recognition of this training activity by the University represents a substantial weakness for the Degree Programme, which will be reiterated and emphasized in all relevant forms and to all institutional offices.

In order to increase the use of the Educational Stable of the Agricultural Farm, with the increase of the animals accessible to students, the Degree Programme is working jointly with other degree programmes of Agripolis to

reach a common educational project that could find partial financial coverage in the next calls of the University for educational initiatives.

A better evaluation of the need for study spaces is planned. It will be conducted by giving them questionnaires, on the basis of which the need such spaces to be open longer will be considered (evening hours, Saturdays).

## 4 – MONITORING AND REVISION OF THE DEGREE PROGRAMME

### 4- a SUMMARY OF THE MAIN CHANGES OBSERVED FROM THE A.Y. 2013/14

Describe the main changes that have occurred since the A.Y. 2013/14, also in relation to the improvement actions implemented in the Degree Programme.

In these fields an analysis of the past must be conducted. In particular, it is necessary to:

- Consult the previous annual reviews
- List the critical issues that have emerged over the years and which actions have been taken.
- Indicate any actions that did not lead to the desired results.
- List the strengths of the Degree Programme and what actions have been implemented to make them further emerge

In the analysis of the situation and in the comments to the data, report only the data strictly essential for the analysis. Avoid inserting entire lists, data sets, tables and graphs.

The monitoring and revision procedures of the Degree Programme take place in a context that is consistently oriented towards the implementation of an effective quality management and assurance system through assessment and self-assessment tools. In 2016, the primary monitoring and review bodies of the Degree Programme, represented by the GAV and the Council of the Degree Programme, were joined by a specific interdepartmental academic commission for the revision of the system (CDRO) which, starting from: 1) the contents of the annual review reports, 2) input from the numerous meetings with students, 3) the results of the analysis of students' opinions on teaching, 4) the contents of the reports of the Joint Commission of the School of Agricultural Sciences and Veterinary Medicine 5) input from the relevant labour market and 6) the results of the EAEVE visit in 2010 plus the updates of the new SOPs approved in 2017, was responsible, in light of the future EAEVE visit scheduled for 2020, to perform the analysis of the results relating to training, aimed at identifying the main critical issues and to formulate the proposed revision of the Degree Programme.

### 4- b ANALYSIS OF THE SITUATION ON THE BASIS OF THE DATA

Include the main problems identified, the challenges, the strengths and the areas to be improved based on the analysis of the period under review and on the perspectives of the following period.

#### Main elements to be observed:

- SUA-CDS: sections B1, B2, B4, B5, B6, B7, C1, C2, C3, D4.
- Reports of annual and periodical reviews, the reports from the student and graduating students questionnaires.
- the observations that emerged in meetings of the Degree Programme, of the Department or during other academic meetings.
- the last Annual Report of the CPDS.

#### Recommended points for reflection

##### Contributions from professors and students

1. Are there any collegiate activities dedicated to the review of the courses, the educational coordination between the teachings, the rationalization of the timetables, the temporal distribution of the exams and the support activities?
2. Are the problems detected and their causes analysed?
3. Do lecturers, students and support staff have the opportunity to easily make their own observations and suggestions?
4. Are the outcomes of the undergraduate and graduate student surveys adequately analysed and considered? Are the overall considerations of the CPDS (and of the other AQ bodies) granted credit and visibility?
5. Does the Degree Programme have procedures to manage student complaints and ensure that they are easily accessible?

##### Involvement of external interlocutors

6. Did interactions take place in course with the parties consulted during the planning phase of the Degree Programme or with new interlocutors, according to the different needs for periodic updating of the training profiles?

7. *The methods of interaction during the course were consistent with the character (if mainly cultural, scientific or professional), the objectives of the Degree Programme and the needs for periodic updating of the training profiles also, where appropriate, in relation to the subsequent study cycles, including the Research Doctorate?*
8. *If the employment outcomes of the graduates were unsatisfactory, has the Degree Programme increased the number of external interlocutors, in order to increase the opportunities of its graduates (e.g.: through the activation of new traineeships, apprenticeship contracts, internships or other interventions orientation to the labour market)?*

#### **Revisions of the training courses**

9. *Does the Degree Programme guarantee that the training offer is constantly updated and reflects the most advanced disciplinary knowledge? Also in relation to the following study cycles, including the Research Doctorate?*
10. *Have the study courses, the results of the exams and the employment outcomes (short, medium and long-term) of the graduates from the Degree Programme been analysed and monitored, also in relation to those of the same class on a national, macro-regional or regional basis?*
11. *Is there follow-up to proposals for improvement actions from professors, students and support staff (once their plausibility and feasibility has been assessed)?*
12. *Are the promoted interventions monitored and their efficacy assessed adequately?*

#### **Contributions from professors and students**

The collegiate activities related to the monitoring and revision of the Degree Programme are mainly carried out by the GAV and by the Council of the Degree Programme. The members of the GAV, coordinated by the president of the Council of the Degree Programme, are represented by 8 teachers, 2 students and 2 stakeholders belonging to the professional world of reference of the Degree Programme. For the specific case of special revision of the training path and modification of its legal system, undertaken in 2016, the Council of the Degree Programme has appointed an interdepartmental teaching commission for the revision of the legal system (CDRO). The commission was charged with analysing the training results obtained with the existing system, identifying the critical issues and formulating the proposed revision starting from: contents of the annual review reports; input purchases in the numerous meetings with students; analysis of the results of the evaluation of teaching and annual assemblies for the improvement of teaching; contents of the reports of the Joint Commission of the School of Agricultural Sciences and Veterinary Medicine; input from the relevant professional world; results of the 2010 EAEVE visit and updates of the new SOPs approved in 2017.

The results of the work of the CDRO and the proposed revision were discussed and approved by the Board of the Degree Programme.

The GAV has the function of collecting and examining all the elements necessary to guarantee the periodic analysis of the Degree Programme, including the observations coming from the Joint Commission of the School of Agricultural Sciences and Veterinary Medicine and from the University Evaluation Unit; those contained in the opinion of the students, organized and implemented every year by the University; those of undergraduates and graduates, and those coming from periodic meetings with exponents of the professional world, to which particular attention is granted. The main tool available to students to highlight any critical issues of the Degree Programme is the Survey on Students' Opinions. Lacking a specific University initiative related to the practical-applicational training activity, the Degree Programme has developed its own tools for collecting and analysing students' opinions on the training activities that represent key activities for the European veterinary surgeon training standard. The students' contribution to the monitoring and revision process of the Degree Programme is guaranteed by their representation in the GAV, in the Joint Commission of the School and in the Council of the Degree Programme. The Degree Programme organizes annually (end of November) a meeting to discuss and reflect on the quality of the training path through a general assembly attended by all the actors of the Degree Programme and to which stakeholders and graduates are invited.

Requests for information and any complaints coming from students regarding various topics (orientation, access requirements, study plans, examinations, prerequisites, achievement of qualifications, traineeship) are generally sent by email to the Educational Office of the School of Agricultural Sciences and Veterinary Medicine, which

responds if competent and/or forwards the request to the referent/competent structure.

Students, professors and administrative technical staff also confer directly with the President of the Degree Programme for any reports or complaints, which are taken into evaluation and subjected to the assessment of the bodies in charge.

#### ***Involvement of external interlocutors***

The involvement of external interlocutors in the process of monitoring and review of the Degree Programme took place thanks to various kinds of initiatives, mainly unstructured, which allowed the various kinds to have continuous feedback on the consistency and timeliness of its training offer. These may include relationships with external professionals who actively contribute to the training activity of practical-applicative training and to exchanges in workshops and seminars, dedicated to the medical-veterinary profession, organized by the Regional and National Federation of Veterinary Orders. The involvement of professionals has recently been expanded and strengthened thanks to structured initiatives represented by:

- a) inclusion in the GAV of two representatives of the medical-veterinary profession, who have an integral task in the drafting of this document;
- b) establishment, at the regional level, of the Permanent Technical Table of Veterinary Profession which sees the participation of members of the various kinds and representatives of the Regional Federation of Veterinary Orders;
- c) establishment of a discussion table with stakeholders, aimed at reviewing the system of the Degree Programme, which saw the participation of 10 professional from the different areas of relevance. The table will also monitor the effects produced by the revision of the system.

#### ***Revisions of the training courses***

The timeliness of the educational offer of the Degree Programme and its correspondence to the professional profile of reference, is verified in the review activity, both in terms of the topics of each course, and in terms of professional profile required by the territory, referring to the training standards defined by the EAEVE. It must be remembered, as indicated above, that the Degree Programme has recently completed the review of the System following the results of the review process which revealed critical issues concerning:

- a) absence or lack of certain courses required by the European veterinary surgeon's training standards (EAEVE, OIE) and updates following the developments of the profession;
- b) excessive load of the training activities foreseen in the practical training;
- c) activity provided as traineeship;
- d) problems related to the Y path ("Clinical" and "Food safety") with students having to choose from the 2<sup>nd</sup> year;
- e) timetable overlaps between frontal teaching activities and traineeship;
- f) lack of specific educational activities for certain courses (especially clinical areas).

In light of this revision process, starting from the academic year 2017-18, the new system was simultaneously activated for the cohorts enrolled in the first, second and third year of the degree.

The main changes undertaken, in order to compensate for the above mentioned criticalities, led to:

- reinforcement (or in some cases introduction) of some courses;
- reduction from 45 to 35 ECTS for traineeship activities, with the elimination of redundant activity or activities with unsatisfactory results in the teaching evaluation, in order to use this space in a more appropriate exercise, while optimizing the practical organization and training of the traineeship;
- elimination of the Y-path foreseen by the previous teaching system;
- introduction of three optional courses ("Pets", "Livestock Animals" and "Public Health") provided between the fourth and fifth year of the course, chosen by the student at the fourth year, and each comprising 15 ECTS. These courses involve the provision of teaching mainly practical (each single ECTS

consists of 15 hours in the presence of the professor and 10 of individual study) and will address the inclusion of new knowledge in ways that take into account the needs of the profession.

The Degree constantly monitors the results of the exams paying particular attention to those of the first year courses, which represents the most critical moment of the student's training path and where there are more frequent delays in careers. Before the revision of the legal system, the Degree Programme had already made interventions aimed at redistributing the lessons between the first year trimesters in order to make it easier to organize the students' work and pass the exams of the first year - preparatory to those of the following years.

As part of the review activity carried out by the GAV, the employment results of the graduates are also analysed, also compared to those of the same class on the basis of the national and macro-regional geographical area.

**4- c OBJECTIVES AND IMPROVEMENT ACTIONS**

*Include the interventions deemed necessary according to the changed conditions and the identified critical elements, to the challenges and actions aimed at improving. The objectives must have a multi-year focus and refer to substantial aspects of the students' training and experience. Specify through which actions you believe you can reach your goals.*

In the light of the revision of the Degree's system, an initiative specifically dedicated to new graduates under the new educational framework is being developed to evaluate the effects of the course review and to verify if the new structure actually reduces the overlaps of the educational activities.

## 5 - COMMENTS ON THE INDICATORS

### 5- a SUMMARY OF THE MAIN CHANGES SINCE THE LAST REVIEW

*Describe the main changes that have occurred since the A.Y. 2013/14, also in relation to the improvement actions implemented in the Degree Programme.*

*In these fields an analysis of the past must be conducted. In particular, it is necessary to:*

- *Consult the previous annual reviews.*
- *List the critical issues that have emerged over the years and which actions have been taken.*
- *Indicate any actions that did not lead to the desired results.*
- *List the strengths of the Degree Programme and what actions have been implemented to make them further emerge.*

In the analysis of the situation and in the comments to the data, report only the data strictly essential for the analysis. Avoid inserting entire lists, data sets, tables and graphs.

Starting from the academic year 2013-14 the single-cycle Degree in Veterinary Medicine of Padova, with the aim of improving the students' training path, making entry into the labour market more effective and consequently optimizing the degree indicators, has undertaken a series of changes (system, targeted interventions on content and coordination of syllabi, implementation of IT tools, activation of meetings with students, promotion of internationalization activities, introduction of initiatives to support the development of teaching skills) already fully described in the specific sections covered within this cyclical Review Report.

### 5- b ANALYSIS OF THE SITUATION ON THE BASIS OF THE DATA

*Include the main problems identified, the challenges, the strengths and the areas to be improved based on the analysis of the period under review and on the perspectives of the following period.*

#### **Information and data to be taken into consideration:**

The indicators of the annual monitoring forms are proposed for the main purpose of inducing a reflection on the achievements of the specific objectives. Therefore, each degree must recognize, among those proposed, the most significant goals and comment on their evolution (it is suggested over a period of at least three years). The indicators refer to the distribution of values on a national or macro-regional scale and by disciplinary class.

1. Indicators relative to education (group A, Annex E Italian Ministerial Decree 987/2016);
2. Internationalization Indicators (group B, Annex E Italian Ministerial Decree 987/2016)
3. Additional Indicators for Teaching Assessment (Group E, Annex E Italian Ministerial Decree 987/2016)
4. Indicators for the Educational Path and Career Regularity (in-depth indicators for experimentation);
5. Satisfaction and employability (in-depth indicators for experimentation);
6. Detailed Indicators for Experimentation (in-depth indicators for experimentation);

#### **COMMENTS ON THE INDICATORS:**

##### **I. Section enrolled students**

The number of students enrolled in the Single-Cycle Master Degree in Veterinary Medicine, both at national level and specific to individual universities, is programmed by the MIUR (Italian Ministry of University and Research). Such number has been in constant decline in recent years.

The indicator "first-time enrolled" does not take into account the students who transfer from other course of studies or from one location to another. In this way these students are lost. In fact, despite their year of cohort, they are not registered in the accounting of the course of study they leave, nor in the arriving one.

The use of this data is misleading and not without consequences:

1) At the present, even simple transfers are considered as withdrawals (see the case of courses with a national programmed number - Veterinary Medicine, in particular where transfers between centres are quite frequent).

It would therefore be useful to disaggregate the data, distinguishing the actual withdrawals from the transfers.

2) Acceptance of the transfer applications is disincentivized because the indicator worsens, penalizing mostly the most attractive locations.

## II. Group A - Teaching Assessment Index

In Padova, the percentage of students enrolled within the normal length of the course of studies, who have acquired at least 40 ECTS credits in the calendar year (iC01) is definitely higher than the national average (60.2% vs. 46% in the three-year period 2013-15). If we consider the percentage of graduates within the regular length of the Degree (iC02), we observe a decreasing trend (36.2% in 2013, 32.9% in 2014, 28.3% in 2015), even if the average is similar to the national one (26.6% in 2013, 42.5% in 2014, 35.1% in 2015). According to the 2017 Alma Laurea report, in 2016 the number of graduates increased (63) compared to 2015 (55). It should also be considered that the index of graduation delays for the course of studies in Padova is the lowest (0.21) at the national level (0.51). In addition, observing the percentage of enrolled students that graduate one year after the regular duration of the course in the same course of studies (iC17), there is a growing trend (60.2% in 2013, 62% in 2014, 66.7% in 2015), definitely higher than the average of

## III. Group B - Internationalization Indicators

The percentage of ECTS credits earned abroad by regular students out of the total ECTS credits achieved by students within the regular duration of the course (iC10) has definitely increased in 2015 (2.41%) compared to the years 2013 (0.95%) and 2014 (0.62%), recording average values similar to those of the geographical area (2.16% in 2013, 1.26% in 2014, 2.52% in 2015) and national (1.98% in 2013, 1.90% in 2014, 2.78% in 2015).

## IV. Group E - Additional Indicators for Teaching Assessment

The values, generally similar to the geographical area averages and higher than the national averages, confirm an excellent level of regularity of careers.

## V. Detailed Indicators for experimentation

Since 2014, all first-time enrolled students (100%) continue their career to the second year within the university system (iC21). With regard to the percentage of first-time enrolled students in the course of studies within the normal duration of the course (iC22), although the trend is slightly fluctuating (48% in 2013, 56.4% in 2014, 45.7% in 2015), the values clearly are higher than average for the geographical area (between 33 and 38%) and national level (between 23 and 27%). This parameter is considered the true indicator of academic career regularity as is cleared from students who graduate outside prescribed time and/or transfer from other Universities. Regarding the percentage of withdraw from the degree after N+1 years (iC24), this figure, rather high (in particular 28% in 2013), is significantly affected by the fact that many students take and pass the admission tests in other nationally programmed courses, with consequent transfers of degree.

### COMMENT ON STUDENTS' OPINION:

With regard to the opinion of the students, the single-cycle degree course in Veterinary Medicine of the University of Padova sees a low number of completed questionnaires (in the academic years 2015/16 and 2016/17 respectively 63 and 64%, compared to 76% and 77% of the University). This data could be explained by the fact that the current Regulation (2011), nearly ended, requires the evaluation of a very large number of training activities (100 among integrated courses with one prevailing professor and single activities for the A.Y. 2016/17), most of which are the result of changes linked to the Y path (that is, the student in this system - after an initial joint training - has to choose between the "clinical" and "food safety" orientation). In addition, the "food safety" orientation has always been selected by a small number of students (5 in the last 2 academic years of activation), with obvious consequences regarding the reaching of the minimum number of completed questionnaires (more than 5 respondents) to validate the evaluation of the module/course.

If the results of the evaluations are to be considered, the average scores are positive, and improving: for example comparing the A.Y. 2015/16 and 2016/17 the "overall satisfaction" increased from 7.48 to 7.69, the "organizational aspects" from 7.86 to 8.04, and "the educational action" from 7.54 to 7.78. Specifically, in the last 3 academic years, for all 13 questions examined, there has been a systematic reduction of the number of teaching activities with insufficient marks (below 6).

The single-cycle Degree Course in Veterinary Medicine of Padova has also implemented an assessment by students

(compulsory from the A.Y. 2017/2018, to do on Moodle) of their traineeships, i.e. practical activities supervised directly by the professor and which take place in small groups (maximum 4-5 students). The outcomes of these evaluations (active for the last 4 academic years) indicate that the overall satisfaction (score scale from 1 to 10) is abundantly higher than the sufficiency for all the areas involved.

#### **COMMENT ON THE ALMA LAUREA DATA**

According to the Alma Laurea report on the last three years (206 Graduates at UniPd in the three-year period 2014-2016), 87.5% of single-cycle degree graduates in Veterinary Medicine of Padova declared "decidedly satisfied" or "more than not" satisfied on the course, compared to 78.4% at national average. Overall the evaluation of the final year students is always very positive.

According to the Alma Laurea data referred to graduates in the last 5 years, the graduates in Veterinary Medicine of Padova reach an employment rate of 56.0% after 1 year from graduation (compared to 52.4% at the national level), 88% after 3 years (75.7% at the national level) and 79.3% after 5 years (79.3% at the national level). The data referring to the average salary level deviates from the national one, in fact, the average salary after 1, 3 and 5 years from graduation is equal to 807, 1,222 and 1,378 Euros/month, while at the national level it is 874, 1,114 and 1,276 Euros/month.

#### **5- c OBJECTIVES AND IMPROVEMENT ACTIONS**

*Include the interventions deemed necessary according to the changed conditions and the identified critical elements, to the challenges and actions aimed at improving. The objectives must have a multi-year focus and refer to substantial aspects of the students' training and experience. Specify through which actions you believe you can reach your goals:*

The majority of the indicators reveal a more than satisfactory overall trend, often similar to that of the geographical area and in many cases higher than the national average. The educational indicators all indicate an excellent level of career regularity with a high percentage of enrolled students graduating within the regular duration of the degree programme - higher than the average of the geographical area and the national average.

However, the specific nature of a degree programme remains, with a five-year duration, a significant teaching load and consequent repercussions on the timing of graduation. This has already been addressed by MIUR. Further data analysis must be carried out before implementing any changes.

The modifications implemented by the change in system will become fully operational for all the years by the A.Y. 2019/20. At that point it will be possible to make an adequate assessment of the effects of the improvements made.

In addition to these more general actions, it will be essential to intervene in specific cases with corrective measures on the compilation and quality of the Syllabi, actions possibly intensified where critical issues continue to persist.

In specific, in the case of unsatisfactory results in the assessment of teaching (including traineeship activities), in-depth analysis of the individual training activities will be carried out in order to highlight the actual problems and make the necessary improvements. If the problems are connected to the educational action and over the next few years no definite and progressive improvement is made, specific actions will be taken with the possible replacement of the professors involved.

# iMOVES

## Summer School – University of Padova Clinical rotations in USA and AUS: An opportunity for veterinary students to take part in exchange study periods

The School of Agricultural Sciences and Veterinary Medicine (SASVM) of Padova considers international exchange programmes of the utmost importance for high quality teaching. UNIPD supports international exchange to foster mutual understanding and break down cultural barriers. A Summer School in Food Safety, Public Health and Animal Welfare has been offered every year since 2012, allowing Italian, American and Australian veterinary medicine (VM) students to meet in Italy and increase their knowledge in Food Safety, while experiencing cultural exchange and broadening their minds. This opportunity has been offered in exchange for UniPD students to be able to spend, during the following year, two weeks in either an American or Australian Veterinary Medicine School carrying out their clinical rotations.

The 2-week intensive Food Safety course is offered by UniPD in early summer and includes theoretical lectures, practical laboratories and field trips to slaughter houses and food producing companies. This course is fully sponsored by: private companies (Pzifer), the University of Padova and the 2 Depts. of the SASVM. Accommodation is provided by UniPD in downtown Padova at one of the UNIPD student housing facilities. Lunches during working days are sponsored by the SASVM. Attendees will have to provide funding for their international travel, accommodation, breakfast and dinner.

The number of international VM students coming to Padova from a foreign university should be matched by the foreign university accepting the same number of VM students from Padova as observers for senior clinical rotations at the foreign VM school during the following Summer. Therefore, if, for example, 5 students attended the 2019 Summer Session in Padova from university A, 7 from university B and 6 from university C, the following year university A should accept 5 students from Padova, university B should accept 7 students and university C should accept 6 students. Acceptance of VM students from Padova should include free registration as an observer for a 2-week clinical rotation and lunches during weekdays.

It is considered acceptable for a student to be hosted by another student (i.e. sharing an apartment). Therefore, if an international VM student has the possibility to host an Italian VM student during the Summer, an Italian VM could be selected and two students could be matched so that the international VM student could be hosted in Padova during the Summer School, and they both could save money on accommodation. The hosting student could provide help and guidance on in- and out-of-campus orientation, explaining local uses and traditions, helping to break down language barriers.

### UNIVERSITIES INVOLVED

Foreign VM students from the Veterinary Colleges of Texas A&M University, Penn State University, Kansas State University, Colorado State University and University of Sydney are invited to apply through their respective Veterinary Schools. A number of 15-20 places will be assigned on a first-come first-serve basis.

Each academic institution is responsible for developing criteria for the selection of its own students, based on availability of local funding.

### AIMS

The program is designed to provide an international educational opportunity for a select group of veterinary students attending the University of Padova, USA and AUS University. During the *two years program*, participants will develop a better understanding of the cultural differences between North America and Europe with regard to veterinary student education, the practice of veterinary medicine, pet ownership, animal production, marketing of veterinary products, and food safety.

This initiative stems from a series of international exchange programs that have taken place at UNIPD, mainly targeting USA University. Although these programs have been perceived as highly successful both from the students and the teachers, the magnitude of this success and the related benefits have been difficult to assess and measure. It would be helpful to the growth and diffusion of this international exchange program to have a complete set of current information to be used to write a paper to submit to an education journal such as the Journal of Veterinary Medical Education. In order to do this it would be advisable to establish a common set of criteria based on which students could be evaluated prior to and following the program in order to assess their performance and the usefulness of the program, as this could be the only way to document the users' progress. The following criteria could be used from this year onward to assess student performance and their development of an intercultural sensitivity by asking them to provide a standardized set of information through either a blog, a report, or an online form.

### Professional criteria

#### *Public Health*

- knowledge that students should have acquired by the end of the course
- Make sure that the content matches the knowledge and evaluate the students at the end of the program to assess what they have acquired

*Clinical* – these would be mainly soft (not strictly clinical) skills

- Learning client communication
- Talking to client about costs
- Negotiating and integrating skills and knowledge

### Non-professional criteria

- Adjusting to a foreign environment
- Working with people of different background and culture
- Shift in cultural attitude and perspective
- Global awareness

Table 1.1. I-Moves data collected over 4 years.

	MOBILITY IN – IMOVES (SUMMER)			
	2015/2016	2016/2017	2017/2018	2018/2019
Texas A&M University	6	10	6	5
Tufts University	2	1	/	/
Colorado State University	/	/	3	2
Kansas State University	/	/	1	4
Pennsylvania State University	/	/	/	4

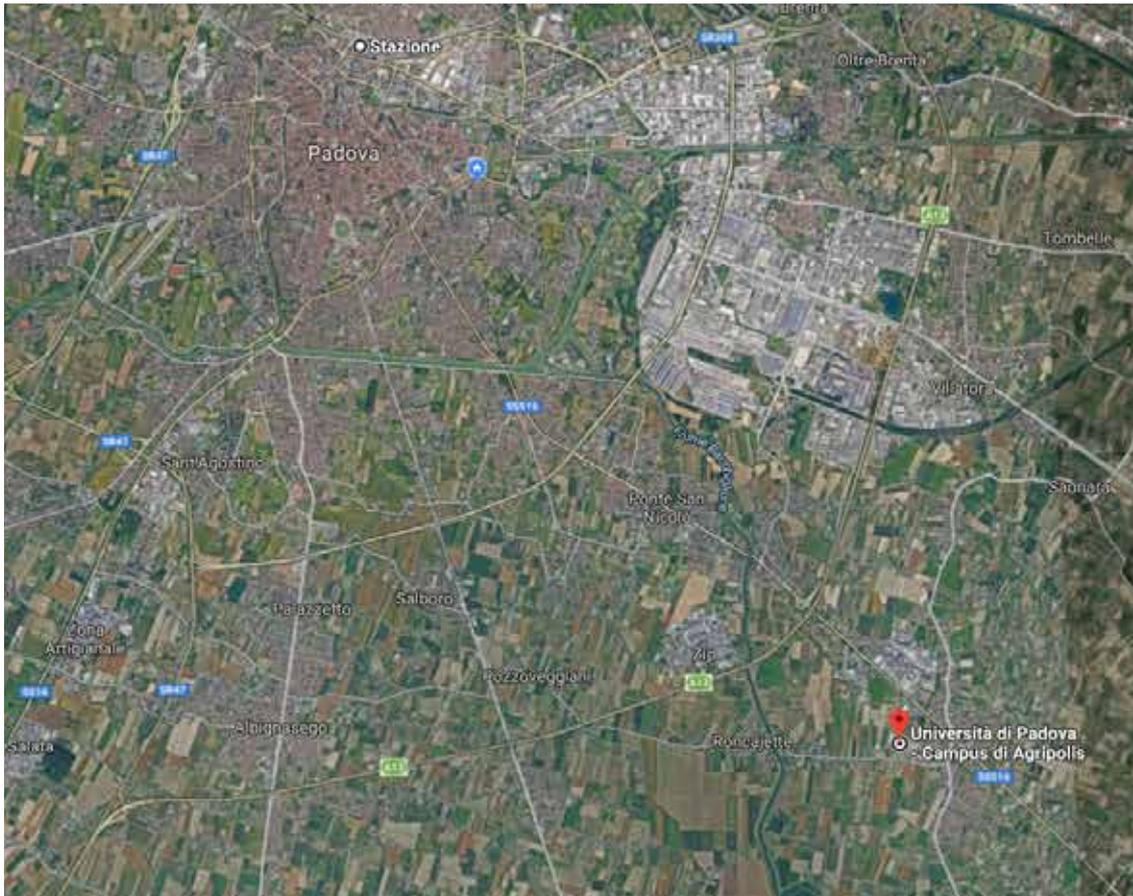
	<b>MOBILITY OUT – IMOVES (SUMMER)</b>			
	<b>2015/2016</b>	<b>2016/2017</b>	<b>2017/2018</b>	<b>2018/2019</b>
Università di Padova	10	10	10	10



4.

**ANNEX**



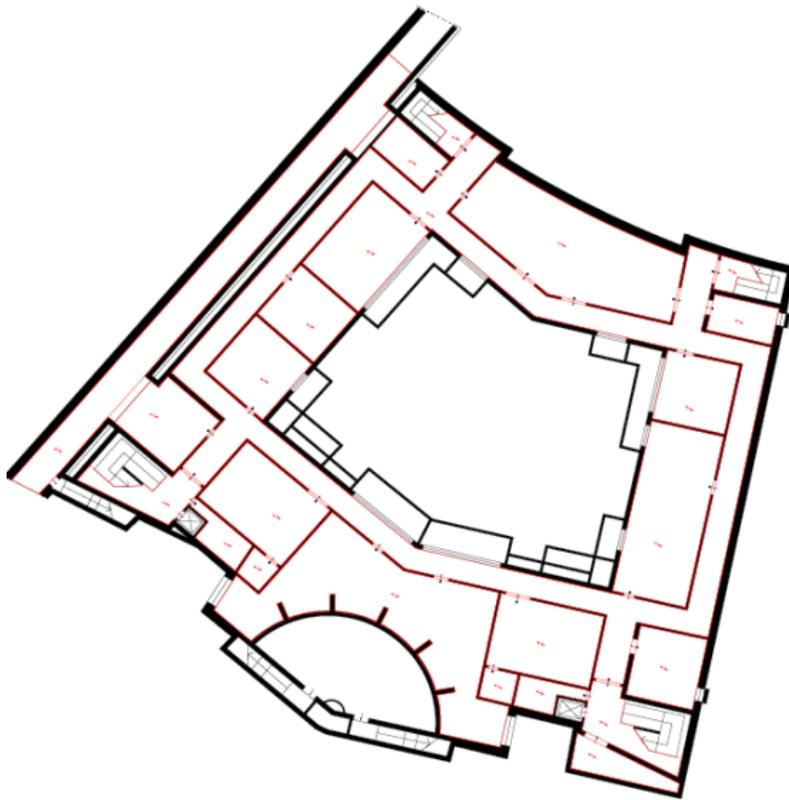


Annex 4.1b



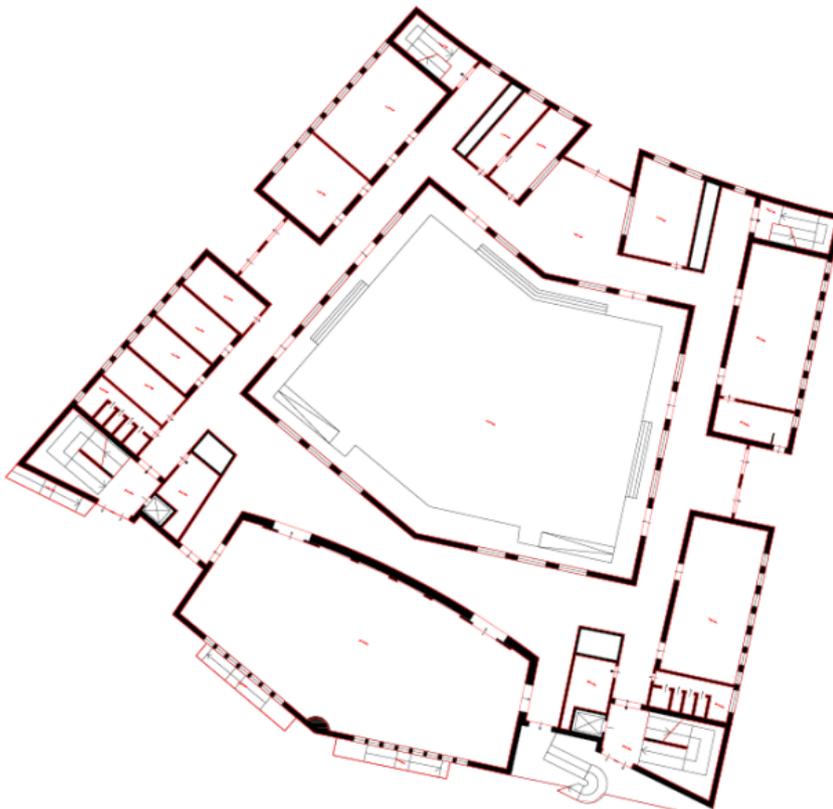
**Annex 4.2a**

**Pentangon (basement)**



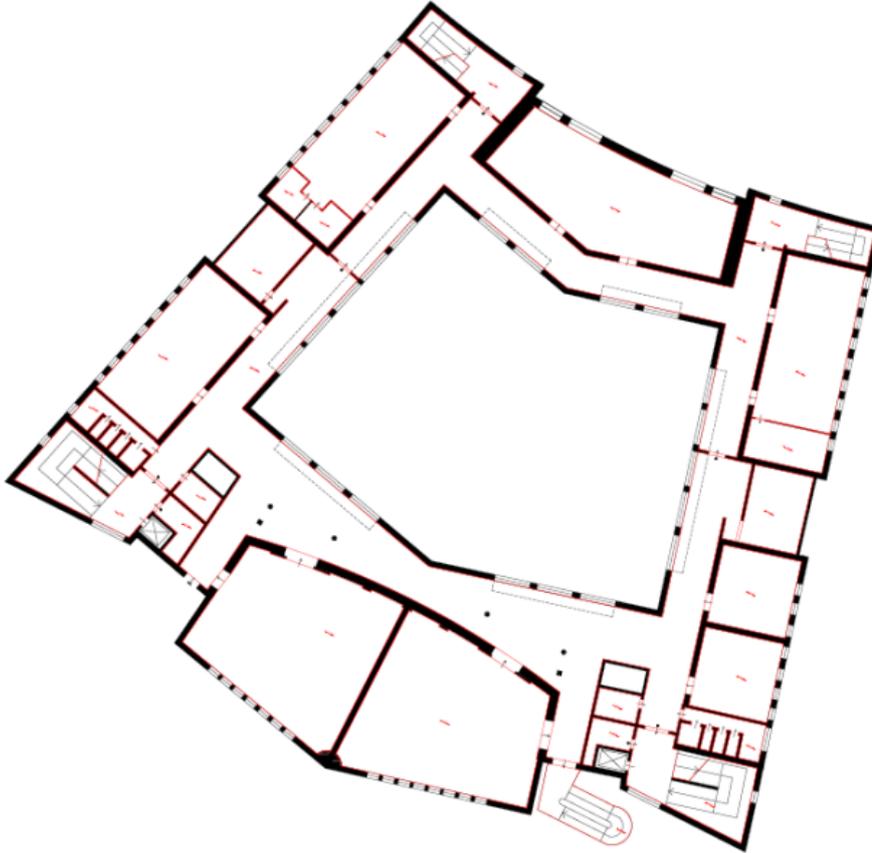
**Annex 4.2b**

**Pentangon (ground floor)**



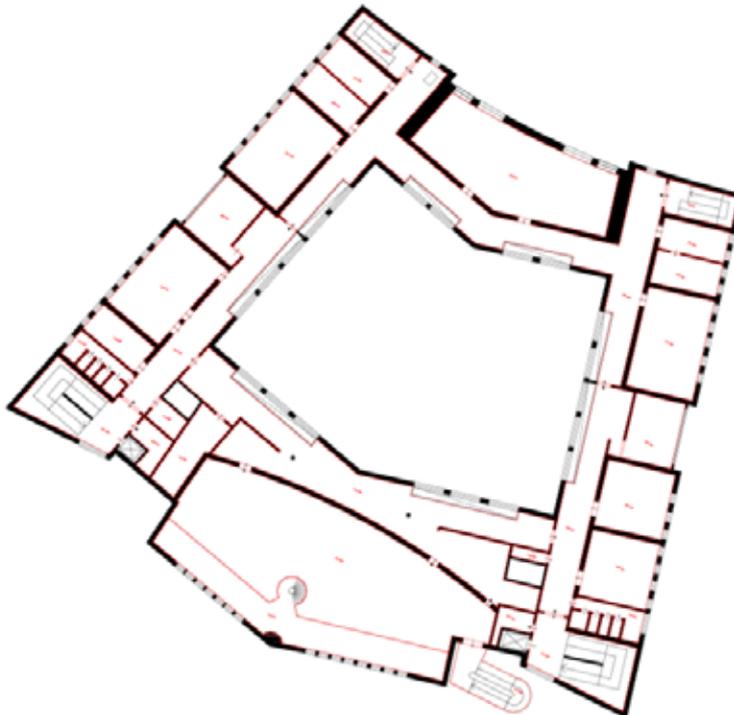
**Annex 4.2c**

**Pentangon (first floor)**



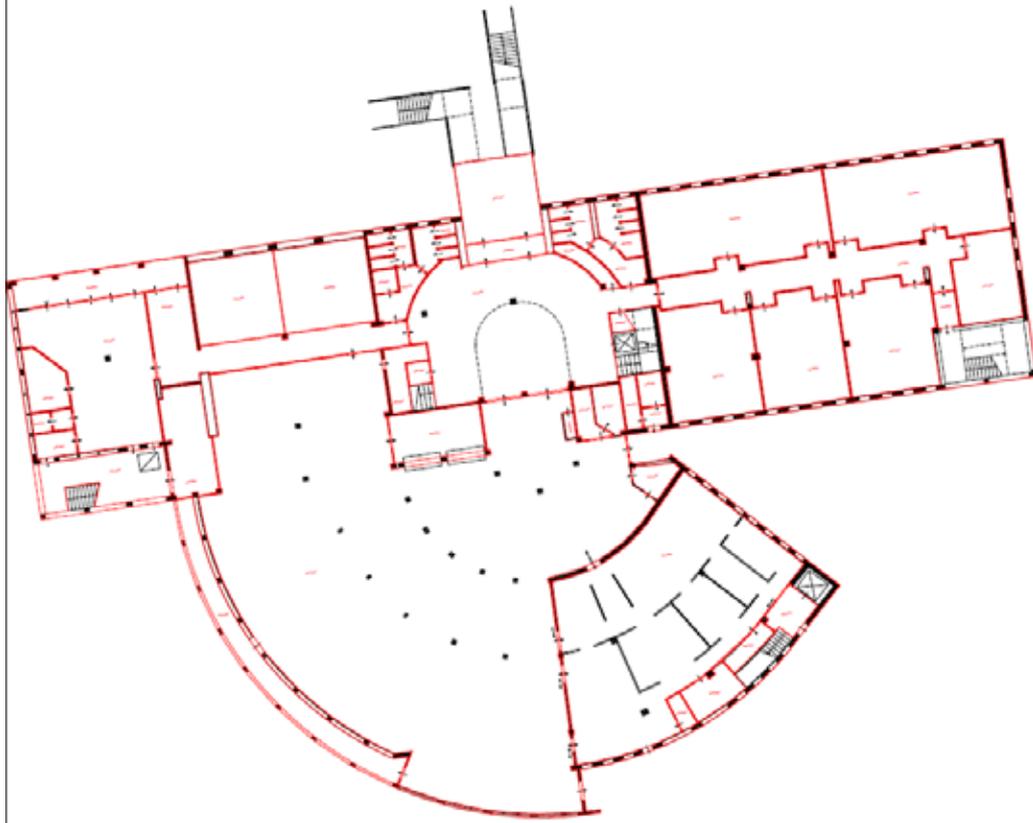
**Annex 4.2d**

**Pentangon (second floor)**



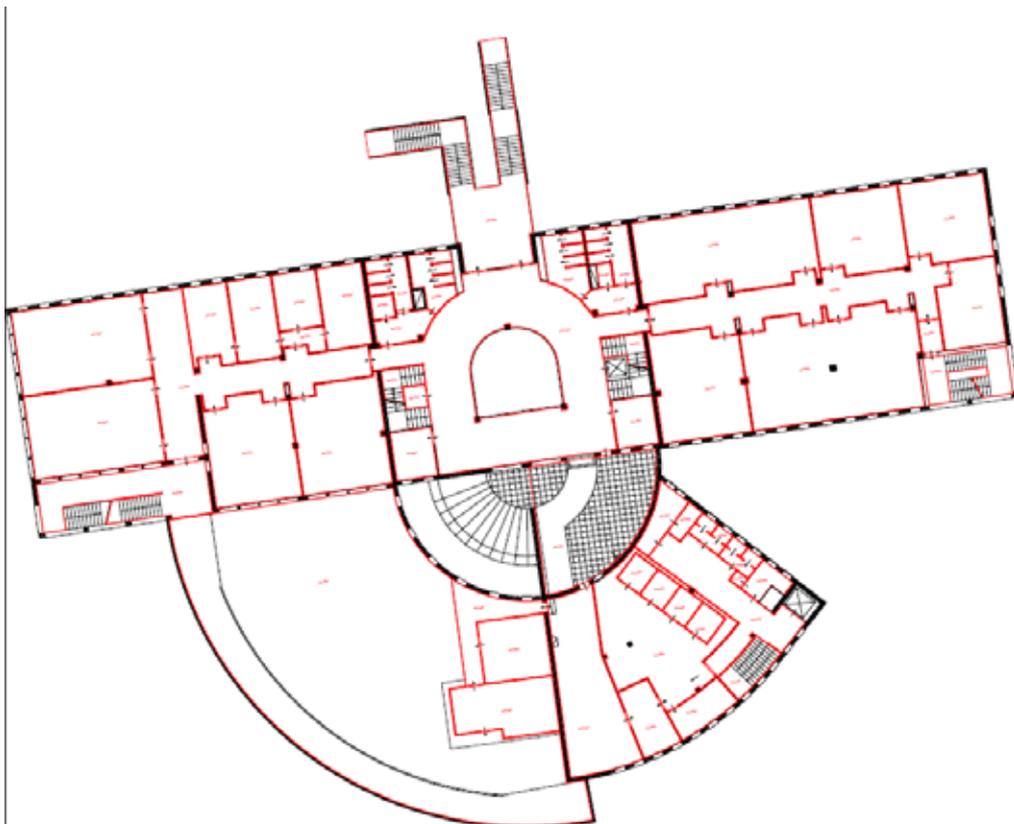
**Annex 4.3a**

**Cà Gialla (ground floor)**



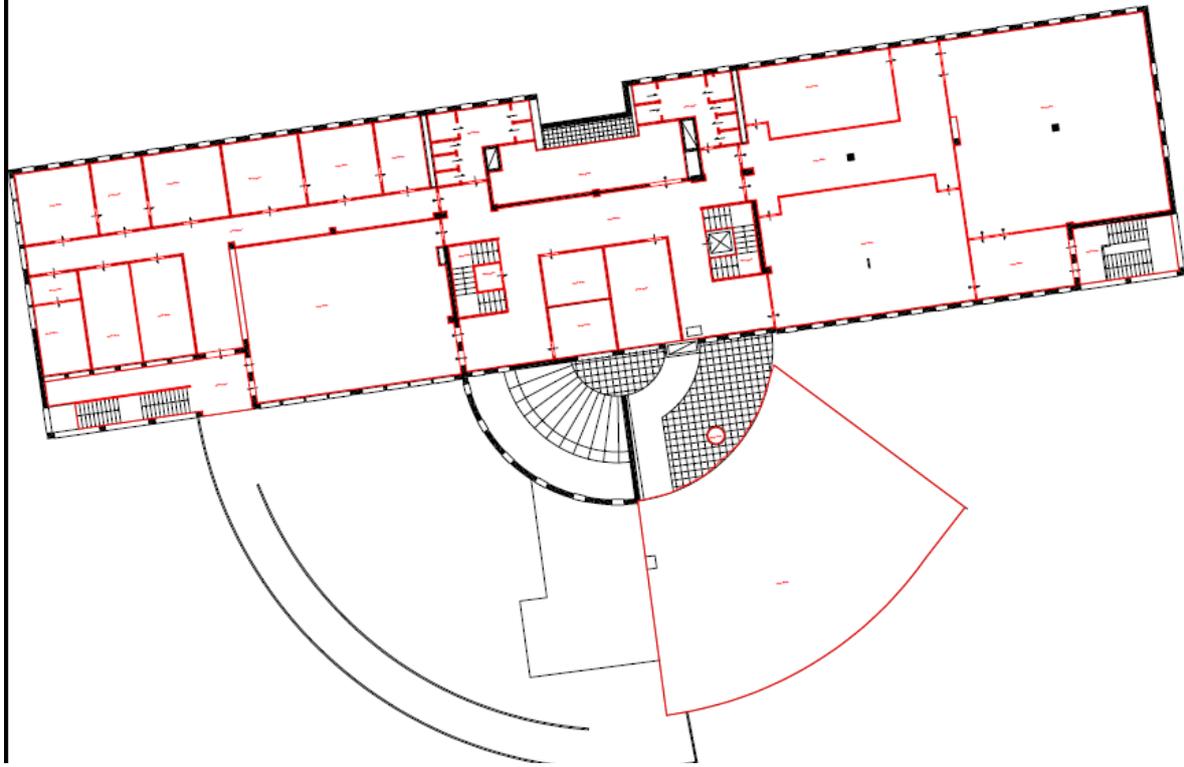
**Annex 4.3b**

**Cà Gialla (first floor)**



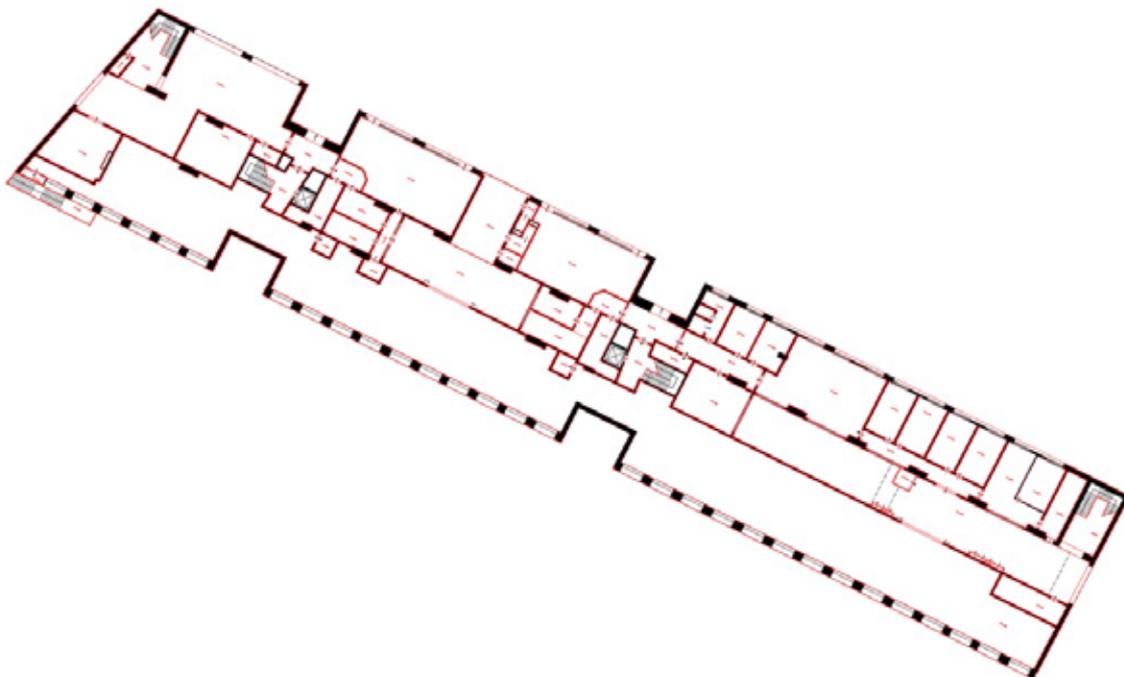
**Annex 4.3c**

**Cà Gialla (second floor)**



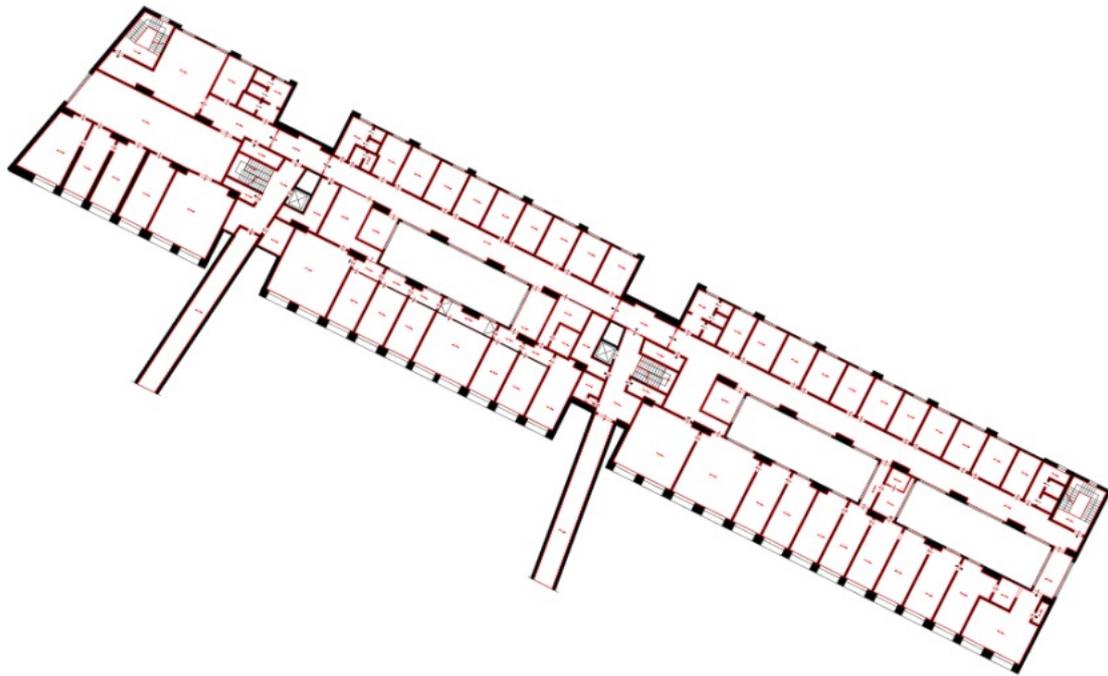
**Annex 4.4a**

**Stecca (Ground floor)**



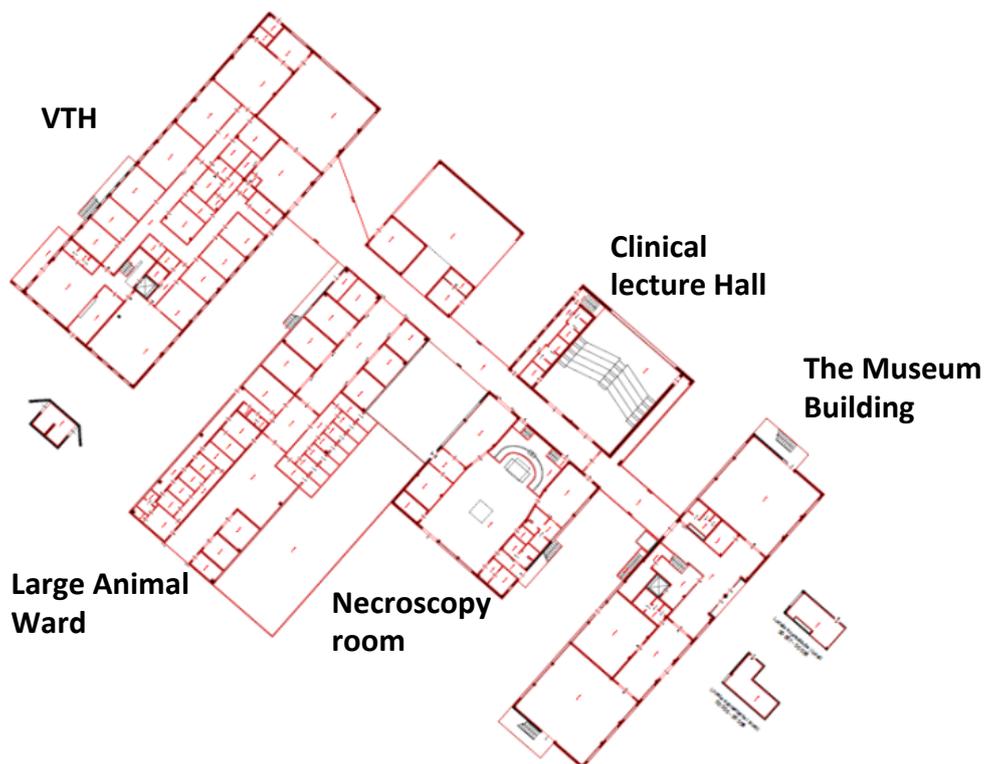
**Annex 4.4b**

**Stecca (First floor)**



**Annex 4.5a**

**Museum Complex (ground floor)**



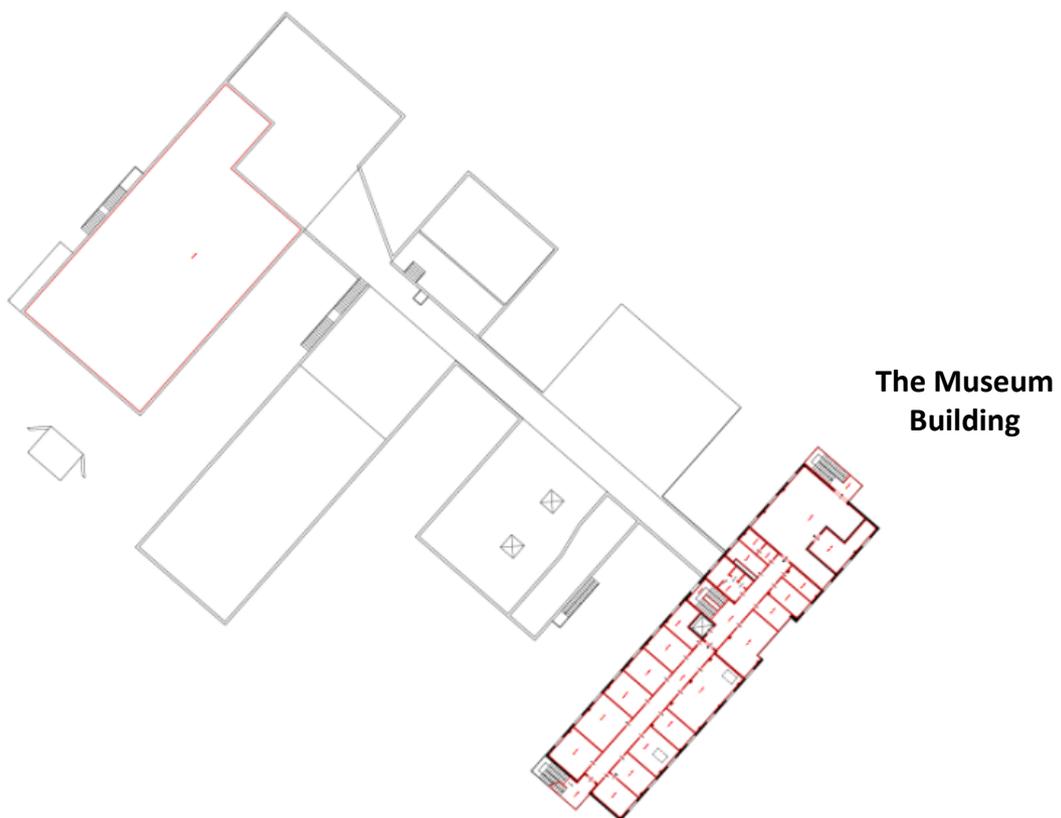
**Annex 4.5b**

**Museum Complex (First floor)**



**Annex 4.5b**

**Museum Complex (second floor)**



Annex 4.6

Veterinary Teaching Hospital



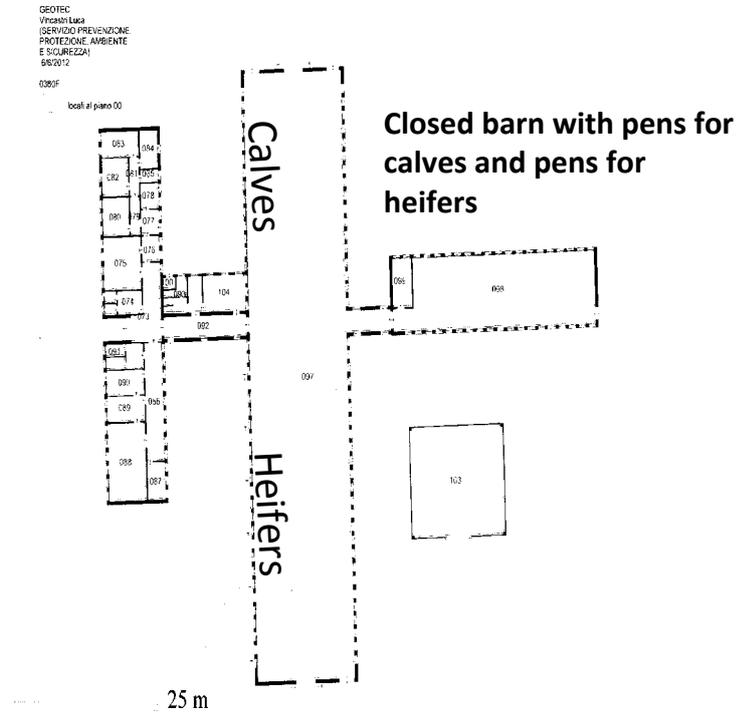
Annex 4.7a

Experimental farm





**Annex 4.7d**



## Traineeship activities in FSQ & VPH

**Professor responsible for traineeship:** Prof. Paolo Catellani

**Contact details:** +39 049 827 2966  
[paolo.catellani@unipd.it](mailto:paolo.catellani@unipd.it)

### OBJECTIVES

Each student must: (1) know how to conduct ante and post mortem inspections required by EC Regulation 854/2004 until December 2019 and then to EC Regulations 2019/624 and 2019/627) on all animals for slaughter; (2) know how to make inspection judgments on the consumption of meat from slaughtered animals (cattle, pigs, poultry, rabbits, reared and wild game); (3) actively participate in taking samples to perform bacteriological, and chemical analyses; (4) know how to interpret the results of laboratory tests; (5) know how to set up and conduct audits in industries that produce food of animal origin and even non-animal origin, according to the EC Regulation n.882/2004 until December 2019 and to the EC Regulation 2017/625 and related rules); (6) know how to carry out health supervision and hygiene evaluation in food processing plants as well as in retail stores (meat, milk, eggs, fishery products and aquaculture); (7) recognize and identify various species of fish, mollusks and crustaceans, and participate in audit activities in the food industry. Each student must also (8) know how to complete the documentation required by the current legislation on food hygiene (reports, etc.) and (9) evaluate HACCP plans and verify food traceability systems in the food processing plants.

Link: [https://apex.cca.unipd.it/pls/apex/f?p=1300:1:::NO:1:P0\\_FSVM\\_COD\\_ID:628](https://apex.cca.unipd.it/pls/apex/f?p=1300:1:::NO:1:P0_FSVM_COD_ID:628)

In order to access the information, it is necessary to log in with a Single Sing On.

**Table 1. Local Health Authorities (ASL) within the Veneto Region (\*)**

Name of the Local Health Authorities	No. of places available
ASL 1 – DOLOMITI (Belluno)	2
ASL 2 - MARCA TREVIGIANA (Treviso)	12
ASL 3 – SERENISSIMA (Mestre)	28
ASL 4 – SAN DONÀ DI PIAVE	3
ASL 5 – POLESANA (Rovigo)	4
ASL 6 – EUGANEA (Padova)	36
ASL 7 – PEDEMONTANA (Bassano del Grappa)	18
ASL 8 – BERICA (Vicenza)	8
ASL 9 – SCALIGERA (Verona)	6

**Table 2. Local Health Authorities (ASL) within the Friuli-Venezia Giulia Region and the Trentino-Alto Adige Provinces (\*)**

Name of the Local Health Authorities	No. of seats available
ASUITS n. 1 – Triestina	2
AAS n. 2 – Bassa Friulana – Isontina (Palmanova)	3
AAS n. 3 – Alto Friuli, Collinare, Medio Friuli	/
ASUIUD n. 4 – Friuli Centrale (Udine)	3
AAS n. 5 – Friuli Occidentale (Pordenone)	5
APSS n. 1 – TRENTO	1 per health section
ASDAA n. 2 – BOLZANO	4

ATS n. 1 – BRESCIA	2
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(\*) The relationship between the Veterinary Medicine Course and each of these structures is governed by a specific agreement stipulated between individual health agencies and the University of Padua for professional training purposes.

**Table 3. Slaughterhouses and Food Processing Plants within the province of Padua**

<b>SPECIES: DOMESTIC UNGULATES</b>	<b>SPECIES: POULTRY AND LAGOMORPHS</b>	<b>RELATED PREMISES</b>
Dimensione Carne, in Codevigo, 16 km from SASVM	Scudellaro, Arre, 20 km from SASVM	Guerriero, in Villafranca Padovana, 28 km from SASVM – Cutting plant
Coser, in Cartura, 20 km from SASVM	Bacco, in Codevigo, 14,6 km from SASVM (ducks and goose)	Guerriero, in Villafranca Padovana, 28 km from SASVM – Meat products sausage plant
IMC, in Agna, 24 km from SASVM	Fiorenzato, in Vigonza, 26 km from SASVM	Centro carni Company, in Tombolo, 43,5 km from SASVM – Cutting plant
Bertipaglia, in Arre, 20 km from SASVM (swine only)	Agricola Berica, in Monselice, 30 km from SASVM	Coppiello, in Perarolo di Vigonza, 18 km from FMV – Meat products (horse)
Magnarello, Sant’Urbano, 55 km from SASVM	Scarso, in Rio di Ponte S. Nicolò, 5 km from SASVM	Brugnolo, in Vigonza, 15 km from SASVM – Meat products (pig)
CO. MA. CA., in San Martino di Lupari, 48 km from SASVM	Agricola Tre Valli soc. coop., in San Giorgio in Bosco, 35 km from SASVM (rabbits)	Lattebusche, in San Pietro in Gu, 55 km from SASVM – Cheese plant
Garzaro snc, in Borgoricco, 29 km from SASVM		Gazzo Centro, in Gazzo, 40 km from SASVM. Cheese plant
Guerriero, in Villafranca Padovana, 28 km from SASVM		Nai Ittica, in Cittadella, 43 km from SASVM. Wholesale of fishery products
Fratelli Magagna, in Cartura, 18 km from SASVM		Agricola Berica, in Monselice, 30 km from SASVM. Cutting plant, meat preparations, meat products (poultry)
		Brema Group, in San Pietro in Gu, 54 km from SASVM. Pasta plant
		Fontana, in Este, 37 km from SASVM. Meat products
	AIA S.p.A. (San Martino Buon Albergo Verona). Slaughterhouse and meat deboning plant for poultry	Colomberotto (Moriago della Battaglia Treviso). Slaughterhouse and meat deboning plant
		FIORITAL S.p.A. Venezia (fish and fishery products)



**5.**

**ANNEX**



## II YEAR

### ANIMAL HUSBANDRY

**Teachers responsible for the area: Prof. R. Ricci and Prof. A. Trocino**

**Objectives and performance of Tirocinio:** Correct approach, restraint and movement of farm animals; Correct approach, restraint and movement of sheep and/or goats; Participation in management and care activities of farm animals present on the premises of the Experimental Farm; Participation in management and care activities of sheep and/or goats; zoometric measures in sheep and/or goats; Reading and interpretation of company's reports and documents; Ethnology and morphofunctional evaluation in farm animals (bovines, swine, sheep and goats); correct approach, movement and care of horses.

Activities may either take place on university premises or externally.

At the end of Tirocinio, all students will be evaluated through a multiple choice questionnaire on all activities performed.

**Supervisor responsible for the Tirocinio (introductory) at the Experimental Farm: Dr. N. Borsato, Dr. A. Leorin and Dr. V. Bonfatti**

**Supervisor responsible for the Tirocinio (introductory) on sheep and/or goats: prof. I. Andrighetto**

External companies are detailed on Moodle

### PHYSIOLOGY AND ETHOLOGY

**Teacher responsible for the area: prof. P. Mongillo**

**Objectives and performance of Tirocinio:** During the Tirocinio in Ethology, students are divided in groups of five members to work with the following animals:

- 1) Dogs onto which learning principles aimed at the management of animals in clinical settings are applied. Each group prepares two protocols to teach a dog two different types of conduct. Every group works with two dogs, with students working with dogs twice (once per protocol prepared) during the performance of the activity.
- 2) Donkeys for which which behavioural observations are performed. Students prepare protocols for the collection of behavioural data, which is subsequently applied by both the student themselves and by instructing third parties. The number of animals used are 15. Students observe them and collect behavioural data twice during the performance of the activity.
- 3) Dogs kept in shelters. The activity is aimed at the observation and interpretation of animal behaviours. Every group carries out structured observations on dogs, according to which an operator must approach the dog fence. Every group must perform 10 observations, which means every student takes the role of the operator approaching the fence twice, with other students observing.

Furthermore, during a 15-minute period, students are supervised as they enter the fence and try to apply approach/behavioural strategies directed towards facilitating the performance of practical skills on animals which may not be used to physical contact/interaction with the human being. The number of dogs involved are 15.

**Supervisor responsible for the Tirocinio on Ethology (external): prof. P. Mongillo, prof. L. Marinelli, Dr. S. Normando**

Ethology (external), Agripolis,  
Laboratory of Applied Ethology,, Piazzetta del Donatore, 4, Legnaro

Merlara Dog Shelter, Parco Zoofilo Val Di Maso, Merlara (PD) Via Argine  
Città degli Asini (center for donkey-assisted therapy), Polverara (PD),

### III YEAR

#### ANIMAL HUSBANDRY

**Responsible for the area: prof. R. Ricci and prof. A. Trocino**

**Objectives and performance of Tirocinio:** Equine dietary composition and ration formulations at different life stages; recognition and evaluation of fodder and concentrates for farm animals; reading and interpretation of feed tags in farm animals and exercises; management, handling and restraint of poultry in backyard flocks and recognition of avian species; performance of activities related to hatchery management; management, handling and restraint of meat rabbits; recognition of species, gender, age, census and capture of wild ungulates; handling and welfare of animals kept in captivity; telemetry applied to wildlife and health management of wild animals; preparation and distribution of environmental enrichment.

Activities may take place either on University premises or externally.

At the end of Tirocinio, all students will be evaluated through a multiple choice questionnaire on all activities performed.

**Supervisor for the Tirocinio in Farm Animal Nutrition: prof. A. Trocino e**

**Dr. N. Borsato**  
'L. Toniolo' Experimental Farm

**Supervisor for the Tirocinio in Companion Animal Nutrition (horses): Dr. S. Masiero**  
La Casa Verde Ranch, Via del Pranon, 8 Santorso (VI)

**Supervisor for the Tirocinio in Rearing Techniques (wildlife): Dr. G.**

**Marchesini and Dr. F. Obber**  
Parco Naturale di Paneveggio and Pale di San Martino (TN).

**Supervisor for the Tirocinio in Animal Welfare (non-conventional animals kept in captivity): Dr.**

**M. Brscic**  
Parco Faunistico Valcorba, Pozzonovo (PD).

**Supervisor for the Tirocinio in Avian Species: Prof. A. Dalle Zotte**  
Istituto "Duca degli Abruzzi" c/o IPSAA S. Benedetto da Norcia, Via delle cave 172,  
Padova

**Supervisor for the Tirocinio in Rabbits: Dr. M. Cullere**  
Azienda Agricola Battilana, via San Giovanni Battista, 26, 35035, Mestrino (PD).  
'Azienda Agricola Zambonin, via San Michele Arcangelo, 18, 35035, Mestrino (PD).

#### FOOD INSPECTION

**Responsible for the area: prof. P. Catellani**

**Obiettivi e modalità del tirocinio:** Laboratory instruments and safety; preparation and procedures of microbiological analysis on food samples; reading and interpretation of outcomes; audit, inspection techniques and HACCP procedures at raw milk manufacturers. Use of Python programming to identify species in animal and food matrices; use of genomic database and introduction to the most used IT packages for food inspection and safety.

At the end of Tirocinio, all students will be evaluated through problem solving on case studies and foodborne disease management.

**Supervisor: Dr. L. Alberghini**

Based on availability: Teaching Laboratory Room 3SS;  
Teaching Laboratory Biology Room;  
'Food Inspection' Laboratory (Dep. of BCA).

## IV YEAR

### ANIMAL HUSBANDRY

**Responsible for the area: prof. R. Ricci and prof. A. Trocino**

**Objectives and performance of Tirocinio:** Application of on-farm control protocols to assess animal welfare (pig farming); formulation of balanced diets for lactating and dry cows, heifers and meat bovines of different genetic type; critical discussion of particle size; BCS evaluations on ruminants; pre- and post-milking preparation of animals; sensory evaluation of meat products; determination of rheological quality of products of animal origin; determination of rheological quality of meat and dairy products; comparison of nutritional labelling in products of animal origin; Reading and interpretation of companion animal tags/labels; formulation and discussion of dietary plans for companion animals.

Activities may take place either on University premises or externally.

At the end of Tirocinio, all students will be evaluated through a multiple choice questionnaire on all activities performed.

**Supervisor for the Tirocinio in Rearing Techniques: prof. I. Andrighetto**

External companies are detailed on Moodle

**Supervisor for the Tirocinio in Rearing Techniques: prof. P. Berzaghi**  
IT room (Experimental Farm)

**Supervisor for the Tirocinio in Rearing Techniques: (quality): prof. S. Segato**  
Necropsy room, Museum Building, Agripolis;

**Supervisor for the Tirocinio in Animal Welfare: prof. F. Gottardo**  
Azienda Luigi Carolo – via Borghi, 53 Carmignano di Brenta PD

### PARASITOLOGY AND PARASITIC DISEASES

**Responsible for the area: Dr. F. Marcer**

**Objectives and performance of Tirocinio:** Independent activity aimed at further deepening the epidemiological and diagnostic knowledge of parasitic diseases; micro and macroscopic recognition of parasitic diseases of veterinary interest; laboratory diagnosis of parasitic diseases of the digestive and respiratory system; diagnosis of hemoparasites; setting up a control plan; evaluation of student's skills in the handling of a parasitic disease (epidemiology, diagnosis and control) through written and oral tests.

Activities may take place either on University premises or externally.

Parasitology and Parasitic Disease Laboratory, Teaching Room 'Ricordo Dal Zotto' of Agripolis

## PATHOLOGICAL ANATOMY

**Responsible for the area:** dr. L. Cavicchioli

**Objectives and performance of Tirocinio:** activities related to cytological and histopathological diagnosis and preparation procedures, sampling, recording and processing of samples; evaluation, reporting and discussion of clinical-pathological cases; necropsy examinations of fish species.

Activities may take place either on University premises or externally.

At the end of Tirocinio, all students will be evaluated through a multiple choice questionnaire on all activities performed.

Pathological Anatomy Laboratory and Necropsy Room

## INFECTIOUS DISEASES

**Responsible for the area:** prof. A. Piccirillo and Dr. M. L. Menandro

**Objectives and performance of Tirocinio:** Sampling and storage and biological samples of live animals; definition of diagnostic procedures; definition of sampling plans; epidemiological samples; evaluations concerning the use of vaccines and setting-up of intervention plans with regard to viral and bacterial infections (ruminants and swine); development of a check-list relating to biosafety measures in swine/bovine intensive farming; performance of diagnostic procedures and interpretation of results: examples on how to identify pathogens through biological sampling, management of samples to be used for serological analysis and use of serological techniques in the diagnosis of infectious diseases in animals.

Activities may take place either on University premises or externally.

At the end of Tirocinio, all students will be evaluated through a written examination on all activities performed.

**Supervisor for the Tirocinio (first semester):** prof. M. Martini and prof. M. Drigo

**Supervisor for the Tirocinio (second semester):** dr. M. L. Menandro and dr. D. Pasotto

## EMERGENCY SERVICE

**Responsible for the area:** prof. C. Guglielmini

**Objectives and performance of Tirocinio:** Performance of a clinical examination, application of manual skills necessary for the handling of the case, such as venous catheterization, orotracheal intubation, curettage of small wounds and reconstruction of tissues; participation in cases for which an immediate intervention is required, and/or complex cases requiring resuscitation manoeuvres/operations, or any other interventions; care of hospitalised patients; Around the clock outpatient clinical activities and management of hospitalised patients.

Working shifts usually consist of 12 hours (8.00 a.m. – 8 p.m., or 8 p.m. – 8 a.m. during night shifts), with one-hour break.

Activities may take place either on University premises or externally.

## V YEAR

### VTH – SMALL ANIMALS

**Responsible for the area: prof. C. Guglielmini**

**Objectives and performance of Tirocinio:** Internal Medicine: identification and history taking; approach, restraint and handling of domestic animals in safe conditions; complete clinical examination (EOG; EOP), cytological examinations on animals undergoing clinical examinations; preparation and interpretation of basic laboratory testing on blood samples collected from animals undergoing clinical examinations; basic X-ray techniques; identification of the correct X-ray cassette; safety regulations; ultrasound examination; writing of certificates and clinical reports; completion of medical records; parenteral administration/intravenous infusion of drugs; completion of a drug prescription  
Surgery: Under the supervision of a teaching staff members, students perform clinical examinations on animals admitted at OVUD for orthopaedic/trauma examinations; in particular, they are responsible, among others, for taking the patient's history, apply specific manual skills for the orthopaedic evaluation of the musculoskeletal system. Based on clinical data, further diagnostic examinations are performed (radiological examinations) and a thorough discussion of the case takes place.

In case a surgery is planned, one or two student/s is/are called upon to assist as a scrub nurse, which allows them to observe the specificities of the case.

#### Anaesthesiology:

Use of live animals: clinical cases related to the VTH (both at the VTH premises or on site)

Species: dogs, cats, horses, any unconventional and zoo animal;

Type of activity: participation in sedation, anaesthesia with injectable and gaseous anaesthetic agents, local anaesthesia;

Modalities: preliminary discussion of anaesthetic records, clinical case evaluation (including history, clinical condition, collateral diagnosis examinations, type of intervention and any complication arising from the anaesthetic management), identification of drugs and methods of administration, preparation of doses (dilutions and preparation of drugs to be administered through continuous infusion); evaluation of the effects of a medicine, induction of anaesthesia, maintenance treatment, patient recovery, use of antagonists and post-operative management; pre- and post-operative analgesic treatment; fluid therapy and provision of instructions to the owner at discharge.

Activities performed by students: all of the abovementioned activities (including drug administration and intubation procedures) are performed under the supervision of a teaching staff member

#### Reproduction

Students taking part in clinical activities related to daily cases registered at the VTH are involved in the patient's clinical examination, history taking, completion of the medical record, performance of EOG and EOP examinations and sampling (if possible) for collateral diagnostic purposes. Students are also involved in surgical activities of the reproductive system.

As with the current VTH caseload it is not possible to ensure the same and continuous flow of surgical cases on the reproductive system, Wednesdays are entirely dedicated to surgical activities on the premises of a public shelter. Here, students will perform themselves a surgery. The final objective of this Tirocinio is to allow students to perform at least one ovariectomy and one orchidectomy.

At the end of Tirocinio, all students will be evaluated through the presentation and discussion of a clinical case.

Activities may take place either on University premises or externally.

Veterinary Teaching Hospital – Agripolis

### "EMERGENCY SERVICE" (CLINICAL AREA)

**Responsible for the area: prof. C. Guglielmini**

**Objectives and performance of Tirocinio:** Performance of clinical examinations, application of manual skills necessary for the handling of the case, such as venous catheterization, orotracheal intubation, curettage of small wounds and reconstruction of tissues; participation in cases for which an immediate intervention is required, and/or complex cases requiring resuscitation manoeuvres/operations, or any other interventions; care of hospitalised patients; Around the clock outpatient clinical activities and management of hospitalised patients. Working shifts usually consist of 12 hours (8.00 a.m. – 8 p.m., or 8 p.m. – 8 a.m. during night shifts), with one-hour break.

Activities may take place either on University premises or externally.

### SWINE (CLINICAL AREA)

**Responsible for the area: prof. M. Giancesella**

**Objectives and performance of Tirocinio:** Main medical records in farms: stocks and use of drugs, blood sampling, body temperature detection, diagnosis of pregnancy, planning, synchronization and assistance during parturition, weaning techniques, identification of the oestrous cycle in swine, artificial insemination, castration of piglets, injections, vaccination plans to address the most common infectious diseases of farmed pigs, evaluation of health standards; drafting of a clinical report in farms.

Activities may take place either on University premises or externally.

**Supervisor for the Tirocinio in swine: dr. F. Tonon and dr. A. Scollo**

### RUMINANTS (CLINICAL AREA)

**Responsible for the area: prof. M. Giancesella**

**Objectives and performance of Tirocinio:** evaluation of health management, herd and individual history taking, clinical examinations (with particular attention to cardio-circulatory, digestive, locomotor and mammary system, identification of estrus cycle in ruminants, bovine artificial insemination, diagnosis of pregnancy (both manual- and ultrasound-based), management of vaccination plans, sampling of blood, urine and faeces, parenteral drug administration, newborn management and clinical examination, evaluation of production and reproduction indices, definition and electronic submission of clinical reports.

Activities may take place either on University premises or externally.

**Supervisor for the Tirocinio in ruminants: dr. M. Lora, dr. Bonato and dr. Toffan**

'L. Toniolo' Experimental Farm  
Fattoria ai Capitani, Via Rivelle 30, 36015 – Schio (VI).  
Nutrifarm in Via Sant'Anna, 24 - Villa del Conte (PD).

### HORSES (EQUINE CLINICS)

**Responsible for the area: prof. I. Iacopetti**

**Objectives and performance of Tirocinio:** Clinical approach to ordinary health management of horses, EOG and evaluation of the respiratory, digestive and locomotor system; collection of blood and organic samples, application of nasogastric tubes,

respiratory endoscopy or gastroscopy, rectal temperature measurement, evaluation of organic, cardiac and respiratory functions; bandage application techniques, diagnostic/local anaesthesia, intramuscular or intravenous injections, scrubbing for intra-articular injections and patient surgical preparation. Preparation of a clinical case. Activities may take place either on University premises or externally.

**Supervisor for the Tirocinio in ruminants: dott. Gobbo e dott. Forapani**

ALV Quarter Horses – SEREQUINE. Via Ghizzole 7 – 36047 Montegaldella –VI  
 asd in bloom, via Pola 11 Maserà di Padova  
 clinica srl , via Pola 13 Maserà di Padova  
 Rango e Fusato international via levà 14 san pietro viminario PD

EQUINE REPRODUCTION

**Contact person for the area: prof. A. Mollo**

**Objectives and performance of Tirocinio:**

Monitoring of the dam's oestrous cycle, artificial insemination in dams (fresh and frozen semen), sampling and processing of semen, clinical examination of newborns.

Activities may take place both on University premises or externally.

**Contact person for the activity: Dr. M. E. Falomo**

PATHOLOGICAL ANATOMY

**Contact person for the activity: prof. S. Mazzariol**

**Objectives and performance of Tirocinio:**

By the end of the Tirocinio, students will have acquired the relevant skills necessary for taking herd and/or individual histories for pathological and collateral diagnosis purposes.

Students will also be able to perform a complete necropsy both on small and large animals, as well as to draft a necropsy report and choose (if the case) the most suitable post-mortem investigation in order to provide an accurate anatomopathological and aetiological diagnosis. Finally, students will need to know how to dispose carcasses once the post-mortem examination has been performed. In order to take part in the Tirocinio, student must have successfully completed the following courses: General Pathology, General Pathological Anatomy, Infectious diseases of livestock, poultry and companion animals, Parasitology and Parasitic Diseases.

Activities will take place in the Necropsy room of BCA. Once the Tirocinio is finished, knowledge and skills acquired will be tested.

AVIAN PATHOLOGY

**Teachers responsible for the Tirocinio: prof. A. Piccirillo e Dr. M. L. Menandro**

**Objectives and performance of Tirocinio:**

Management, restraint and handling of avian species; sampling (blood, eye, oropharyngeal, tracheal and cloacal swabs) for microbiological investigations. Procedures for the storage and transportation of sampling to the laboratories; selection, interpretation and evaluation of limitations of tests used for the microbiological diagnosis of infectious

diseases in avian species; performance of an avian necropsy, drafting of a diagnostic report and critical evaluation of diagnostic tests used for aetiological diagnosis; sampling of avian carcasses (organs and tissues) for microbiological investigations; Procedures for the storage and transportation of sampling to the laboratories; health management (biosafety measures, vaccination plans and treatments to be used) in avian holdings; performance of clinical examinations and evaluation of environmental and production performance parameters on farms; performance of an on-farm necropsy; preparation and discussion of a necropsy report and discussion of correct diagnostic approaches to certain infectious diseases of the avian species based on the literature provided to students.

Activities may take place either on University premises or externally.

'Lucio Toniolo' Experimental Farm and Necropsy Room (Campus of Agripolis)

VETERINARY HISTOLOGY AND EMBRIOLOGY	G. Radaelli	Fifteen practicals (which shall be repeated for the 2 groups) to be carried out in the microscopy room. Histology laboratory practical: it consists of tissues observation (dogs, horses, bovines, swine, sheep, rabbits and mouse) by means of light microscope (one per student)
VETERINARY ANATOMY I	B. Cozzi	Ten practicals (which shall be repeated for the 2 groups), nine of which to be carried out in the necropsy room. Guided dissection of domestic mammals, with particular attention to dogs, cats, horses, bovines and swine. Occasionally, small and wild ruminants are also analysed. In every practical, at least one animal (or parts of it) is made available for each table (total no. of tables: 6). The number of students participating are 60, which allows for the following distribution: five students per animal. From a quantitative perspective, the number of animals used are: 60-65 dogs, 10-15 cats, 20-25 horses, 15 bovines, 10-15 other ruminants.
VETERINARY ANATOMY II	M.Patrano	Ten practicals (which shall be repeated for the 2 groups) + one recap session. Guided dissection of domestic mammals, with particular attention to dogs, cats, horses, bovines and birds. Occasionally, small ruminants and bony fishes are also analysed. In every practical, at least one animal (or parts of it) is made available for each table (total no. of tables: 6). The number of students participating are 60, which allows for the following distribution: five students per animal. From a quantitative perspective, the number of animals used are: 60-65 dogs, 10-15 cats, 20-25 horses, 15 bovines, 10-15 other ruminants, 30 chickens and 30 sea basses.
VETERINARY VIROLOGY AND BACTERIOLOGY	M.L. Menandro	1 h/student in the necropsy room, 20-22 students divided into groups of 3-4;  5 chickens + 2 livers of bovines, 2 samples/student;  3 hrs/student in the laboratory (sample processing);  1 h/students to be used for discussion;  10 hrs/student – 2 repetitions.
VETERINARY PHARMACOLOGY AND TOXICOLOGY	M. Dacasto	Serum and blood samples 10 hrs/ student – 3 repetitions

GENERAL PATHOLOGY	M. Castagnaro	Ten hours to be carried out in the microscopy room. Students are divided into two groups to analyse histological samples of degenerative/necrotic, inflammatory, infectious and neoplastic lesions.
MEDICAL SEMEIOTICS AND LABORATORY DIAGNOSTICS	M. Morgante	Every student takes part in six practicals of two hours each. Activities are distributed as follows: two hours of practical in clinical methodology on companion animals; two hours of practicals in clinical methodology on large animals; two hours of practical in patient approach and medical record completion; two hours of practical in clinical methodology on horses; two hours of practical in clinical methodology on bovines; two hours of practical in laboratory diagnostics (blood samples, blood smears, urine).
VETERINARY GENERAL ANATOMICAL PATHOLOGY	M. Castagnaro	Two groups of students carry out activities in the necropsy room under the supervision of a teaching staff member. Whole animals to be used for post-mortem activities: piglets (around twelve animals per group/ ten practicals, for a total of 240 piglets). Pathological organs collected from slaughtered bovines, swine, equines and small ruminants. Under the supervision of a teaching staff members, students are guided through the recognition of species, description of lesions, interpretation of lesions and their physio-pathological mechanisms and drafting of a report in the form of morphological diagnosis. After an introductory phase, students are expected to examine the organs themselves, while trying to detect and interpret any possible lesion before presenting their conclusions to their professor.
VETERINARY OBSTETRICS AND PATHOLOGY OF REPRODUCTION	A. Mollo	In groups of 12-13 students each, students take part in two practicals (A and B) for a total of 10 hrs/student. Therefore, 10 practical repetitions of 5 hours each are offered. Practical A: surgery room (access, staff preparation, animal preparation, stages of gonadectomy surgeries). Practical B: experimental farm (breeding management and gynaecological examination): at least 6 bovines from the experimental farm.
INFECTIOUS DISEASES OF LIVESTOCK, POULTRY AND COMPANION ANIMALS	M. Martini	5 practicals of 2 hours each (which shall be repeated for the 2 groups), for a total of 10 hrs/student to be carried out in the necropsy room. For each practical, one carcass per student is made available. Overall, every student carries out 5 necropsy examinations.
COMPANION ANIMALS I	R. Ricci	<b>Parasitology:</b> biological material of animal origin
VETERINARY	M. Isola	<b>Anesthesiology:</b> practicals on cadavers;

SURGERY		<p>Locoregional anesthesia and orotracheal intubation. Live animals: participation in at least on surgery under general anaesthesia followed by a final discussion on the anesthesiological case.</p> <p><b>Veterinary topographic anatomy:</b> cycle of four lessons [= laboratory] on large live herbivores and four practicals (which shall be repeated for the 2 groups) to be carried out in the necropsy room.</p> <p>During labour, large animals are kept in the clinical room.</p> <p>During labour, large herbivores are kept in the clinical room. Usually, this involve three lessons [= laboratory] on horses and one on bovines.</p> <p>Practical activities taking place in the necropsy room simulate the surgical approach to structures of clinical interest of dogs, cats, horses and bovines (occasionally).</p> <p>In every practical, 1-2 animal/s (or parts of it) is/are made available for each table (6), for a total of 30 students (thus 5 students/animal).</p> <p>From a quantitative perspective, the number of animals used are 30-35 dogs, 10-15 cats and 10-15 horses.</p>
FOOD SANITARY INSPECTION METHODS	V. Giaccone	<p>20 hrs/ student</p> <p>Pathological organs collected from slaughtered animals and fishery products (which are purchased specifically for this purpose), for a total of 3-5 tonnes of organs and fishery products for each course.</p>
PUBLIC HEALTH I	M. Martini	<p>4 swine per class (4 hours) to be used for necropsy purposes aimed at diagnosing infectious diseases and 1 dog carcass per class (4 hours) to be used for forensic research.</p>
VETERINARY SURGERY	M. Isola	<p>Use of material of animal origin to simulate surgeries.</p> <p>10hrs/student</p>
CLINICS IN REPRODUCTION	S. Romagnoli	<p>Practicals to be carried out in dog shelters in 8-9 groups of 8 students each. Each student visit 4 dogs (2 dogs and 2 bitches) performing andrological and gynaecological examinations. Every practical lasts 4 hours.</p> <p>The following animals or animal materials are used: teaching horses, equine and bovine viscera, frozen semen.</p> <p>10hrs/student – three repetitions</p>
COMPANION ANIMALS II	M.E. Gelain	<p><b>Cytology:</b> Description and interpretation of cytological samples from endocrine organs, skin, liver, lymph nodes, reproductive system and cavity effusions. Use of animal tissue and cells (at least cytological slides from 2 cases/students for each</p>

		<p>organ)  <b>Reproduction:</b> Ultrasound evaluation of male and female reproductive system pathologies. Andrological diagnostics using seminal material analysis. Use of animal and/or animal cells (seminal material) (4/5 animals)</p>
FARM ANIMALS II	M. Giancesella	<p><b>Medical clinics:</b></p> <p>BOVINE PODIATRY: functional and therapeutic hoof trimming (in labour) in lactating cows.  2 hrs/student (4 groups)</p> <p>EXTRA GYNECOLOGICAL ULTRASOUND EVALUATION. Clinical ultrasound evaluation of cardio-circulatory, respiratory, digestive and mammary systems.  2 hrs/student (4 groups)</p> <p><b>Pathological Anatomy:</b> 1 ECTS (15 hrs) of practical activities divided into 2 practicals to be carried out within the necropsy room in groups of 4 students each, involving the use of 1 swine and 1 lamb per group + organs collected from slaughtered animals (horses and bovines).</p> <p><b>Surgery:</b> Practical activities on the common regions of equine limbs (from metacarpus/metatarsus up to the hoof): flaying of a model for anatomical observation purposes; intra articular infiltration; neurectomy of digital nerves; treatment of distal metacarpal/tarsal fractures; skin suture.</p> <p><b>Reproduction:</b>  Evaluation of reproductive history, monitoring of farm animal reproduction for artificial insemination purposes (2hrs/student – 2 groups) through VTH caseload.  Collateral diagnosis of the reproductive system of mares and bovines through organs from slaughtered animals (necropsy room, 3hrs/student – 2 groups).  Presentation and discussion of equine- and bovine-related clinical cases through audio-visual material (5hrs/student – 2 groups)</p> <p><b>Andrology:</b> clinical examinations of stallions and bulls, semen collection and analysis (vital stain, DNA and acrosome integrity) (5hrs/student – 2 groups) – on the premises of external companies/ microscopy room.</p>
PUBLIC HEALTH II	V. Giaccone	<p>Laboratory activities: 12 samples of cow milk for the identification of E. coli H157 through Immunomagnetic separation. To perform the task, students are divided in groups of 12 each.</p>



**6.**

**ANNEX**



Resource	Course unit	Brief description
Simulation software	Veterinary Ethics	Animal Ethics Dilemma ( <a href="http://www.aedilemma.net/">http://www.aedilemma.net/</a> ): An interactive learning tool for the discussion of animal ethics case studies for university and professional training.
	Veterinary Physiology*	SimHearth (Langendorff set-up): A virtual laboratory that simulates both the heart functions and the effects of the autonomic nervous system on the heart.
Solving of clinical cases	Traineeship in Avian Pathology	Clinical case discussion and necropsy report.
	Parasitic diseases (companion animals)	Students are expected to solve parasitological clinical cases through the use Padlet, an online platform for the creation of interactive whiteboards (IWB).
Self-assessment software	Animal Nutrition and Feeding (Animal Nutrition and Economics) – Second semester of second year	Use of Kahoot (2-3 questions) at the beginning of a class to assess the student's learning outcomes and knowledge of contents dealt with in previous lessons.
	Avian Pathology	Use of Kahoot.
Collection of digital images	Pathological Anatomy – Fourth year	Digitization of glass slides and their online publication for student use.
	Avian Pathology and Traineeship in Avian Pathology	Use of atlases regarding disease patterns to be found in necropsied avian species.
	Diagnostic Imaging****	Students are provided with radiological, sonographic and tomographic images, accompanied by their description.
Educational videos	Animal Nutrition and Feeding (Animal Nutrition and Economics) – Second semester of second year	Videos are used to supplement the student's knowledge of vitamins and minerals in animal nutrition and feeding. The videos are recorded using the Kaltura video platform and uploaded onto the Moodle platform.
	Traineeship in Pathological Anatomy – Fourth year	Videos are used both to supplement the knowledge that students have acquired during their Traineeship and as a self-assessment tool. The videos are recorded using the Kaltura video platform and uploaded onto the Moodle platform.
	Avian Pathology	Projection of videos regarding necropsy examinations of avian species
	Traineeship in Avian Pathology	Projection of videos regarding sampling procedures in avian species (dead and alive) and necropsy examinations.
	Public Health I – Fourth year [Residues]	Projection of videos regarding the illegal use of veterinary drugs and environmental contaminants.
Recorded lessons	Infectious diseases**	Lessons on symptoms and injuries resulting from exotic viral diseases (foot-and-mouth disease, swine fever, rabies). The lessons are used in classroom and uploaded onto the Moodle platform.

Other	Veterinary Physiology*	Practical activities and simulation exercises involving the compilation of laboratory reports that are discussed throughout the course and presented during the oral examination.
	Clinical Medicine***	Simulation of clinical cases through role-playing. Once students have been grouped (three students per group), they are required to take up the role of a veterinary professional, an animal owner and an observer on a rotating basis. During this role-playing scenario, a veterinary examination shall be performed using the simulation cases uploaded onto the Moodle platform.

\*Prof. Gabai

\*\*Prof. Martini

\*\*\*Prof. Poser

\*\*\*\*Prof. Zotti



9.

**ANNEX**



**Figure 9.1.2.** Academic Recruitment Fields and Academic Disciplines comprised within the Veterinary Medicine Group of Academic Recruitment Fields (07/H)

<b>GROUP OF ACADEMIC RECRUITMENT FIELDS</b>	<b>ACADEMIC RECRUITMENT FIELD</b>	<b>ACADEMIC DISCIPLINE</b>
07/H - Veterinary Medicine	07/H1 - Veterinary Anatomy and Physiology	VET/01 – Veterinary Anatomy VET/02 – Veterinary Physiology
	07/H2 - Veterinary Pathology and Inspection of Food of Veterinary Origin	VET/03 – Veterinary Pathology VET/04 – Inspection of Food of Veterinary Origin
	07/H3 - Infectious and Parasitic Animal Diseases	VET/05 – Infectious Diseases of Domestic Animals VET/06 – Parasitology and Animal Parasitic Diseases
	07/H4 - Veterinary Clinical Medicine and Veterinary Pharmacology	VET/07 – Veterinary Pharmacology and Toxicology VET/08 – Veterinary Clinical Medicine
	07/H5 - Veterinary Clinical Surgery and Veterinary Obstetrics	VET/09 – Veterinary Clinical Surgery VET/10 – Veterinary Clinical Obstetrics and Gynecology





**10.**

**ANNEX**



**MAPS EVENTS**

24/09/2016	Dott. Pelliccioli Luca	Concetti di ecologia e dinamica delle popolazioni
07/10/2016	Dott.ssa Galli Valentina	Aggiornamento Specialistici sulle principali novità della normativa relativa ai prodotti ittici con particolare riferimento alle informazioni obbligatorie da riportare in etichetta
07/10/2016	Dott. Tepedino Giulio	I prodotti ittici tra produzione, import ed export. Le principali innovazioni nel settore ittico, commercializzazione dei prodotti extracomunitari in Italia
07/10/2016	Dott.ssa Tepedino Valentina	Le principali frodi e non conformità nel settore ittico a livello europeo e problemi di concorrenza sleale
08/10/2016	Dott. Citterio Carlo	Sorveglianza sanitaria e analisi del rischio nelle popolazioni selvatiche
08/10/2016	Dott.ssa Obber Federica	Eco-patologia della fauna
20/10/2016	Dott. Tonon Francesco	Clinica medica dei suini
21/10/2016	Dott. Viganò Roberto	Etica venatoria e benessere dell'animale
21/10/2016	Avv. Bigolin Otello	Responsabilità civili e penali degli Operatori del settore Alimentare e delle Autorità sanitarie di controllo nell'applicazione dell'Autocontrollo nelle industrie alimentari
21/10/2016	Dott. Delalande Jean Marie	Gastrulation, germs layers development and neurogenesis in mammals
29/10/2016	Dott. Gazzetta Andrea	Aggiornamenti su norme internazionali per la certificazione di qualità nelle industrie alimentari secondo le norme ISO con particolare riferimento alla norma ISO 220000 (parte I)
10/11/2016	Prof. Pietra Marco	Approccio endoscopico in corso di patologia dell'apparato respiratorio nel cane e nel gatto
11/11/2016	Prof. Chiesa Luca Maria	Aggiornamenti sulla diagnostica chimica applicata alla sicurezza e alla valorizzazione degli alimenti per l'uomo
12/11/2016	Dott. Guidi Riccardo	Aspetti teorico-pratici relativi all'impostazione e allo sviluppo di procedure in un Manuale integrato di Gestione HACCP e Qualità (parte I)
19/11/2016	Dott. Gazzetta Andrea	Aggiornamenti su norme internazionali per la certificazione di qualità nelle industrie alimentari secondo le norme ISO con particolare riferimento alla norma ISO 220000 (parte II)
22/11/2016	Dott. Mora Marco	La colica nel cavallo , aspetti clinici e valutazioni chirurgiche (parte I)
29/11/2016	Dott. Mora Marco	La colica nel cavallo , aspetti clinici e valutazioni chirurgiche (parte II)
26/11/2016	Dott. Guidi Riccardo	Aspetti teorico-pratici relativi all'impostazione e allo sviluppo di procedure in un Manuale integrato di Gestione HACCP e Qualità (parte II)
30/11/2016	Dott. Polidoro Massimo	Come disseminare le conoscenze scientifiche

05/12/2016	Dott. Schiesaro Romano	Cenni di tecnica di endoscopia clinica
05/12/2016	Dott. Maertens Luc	Relationship between nutrition and digestive health in poultry and rabbits
11/01/2017	Dott. Borghesan Fabio	Principali malattie infettive degli organismi acquatici allevati
06/04/2017	Dott. Mioni Renzo	Controlli sulla sicurezza degli alimenti: riscontri pratici in funzione della normativa vigente
28/04/2017	Prof. Traversa Donato	Parassiti broncopolmonari nel cane e nel gatto
16/05/2017	Prof.ssa Parisi Giuliana	La qualità nei prodotti ittici (parte I)
17/05/2017	Prof.ssa Parisi Giuliana	La qualità nei prodotti ittici (parte II)
17/10/2017	Dott. Mora Marco	La colica nel cavallo , aspetti clinici e valutazioni chirurgiche (parte I)
19/10/2017	Dott. Tonon Francesco	Clinica medica dei suini
24/10/2017	Dott. Mora Marco	La colica nel cavallo , aspetti clinici e valutazioni chirurgiche (parte II)
18/11/2017	Prof. Smulders Frans	Several aspects of the conversion from muscle to meat
18/11/2017	Dott. Randi Federico	Gestione della riproduzione in allevamenti di animali da reddito
22/11/2017	Dott. Malagoli Tagliazucchi Guidantonio	Meccanismi epigenetici nella regolazione dell'espressione genica in modelli animali
28/11/2017	Dott.ssa Rütgen Barbara	Application of flow cytometry and cell culture in small animal oncology
20/10/2017	Dott. Polidoro Massimo	How to disseminate scientific knowledge - parte introduttiva
23/11/2017	Dott. Desquilbet Loïc	Biostatistics and Epidemiology (Part I)
24/11/2017	Dott. Desquilbet Loïc	Biostatistics and Epidemiology (Part II)
28/11/2017	Dott. Polidoro Massimo	How to disseminate scientific knowledge - modulo 1
01/12/2017	Dott. Bolognini Davide	Gestione della riproduzione in allevamenti di animali da reddito
02/12/2017	Prof.ssa Giangaspero Annunziata	<i>Dermanyssus gallinae</i> e Fipronil
02/12/2017	Prof. Camarda Antonio	<i>Dermanyssus gallinae</i> e Fipronil
04/12/2017	Dott. Maertens Luc	Relationship between nutrition and digestive health in poultry and rabbits and feeding and management control to maintain welfare, health and minimize environmental pollution
15/12/2017	Dott. Profumo Alberto	Primo soccorso di fauna selvatica
15/12/2017	Dott. Calocchio Enrico	Applicazioni pratiche e problematiche igienico-sanitarie dello smaltimento dei sottoprodotti di origine animale: ruolo del gestore privato
15/12/2017	Dott. Zelco Stefano	Sintesi degli aspetti igienico-sanitari dei sottoprodotti di origine animale e della normativa comunitaria vigente
19/12/2017	Dott. Nicoli Stefano	Aspetti chirurgici apparato urinario degli animali da compagnia
17/01/2018	Dott. Borghesan Fabio	Principali malattie infettive degli organismi acquatici allevati

23/01/2018	Dott. Polidoro Massimo	How to disseminate scientific knowledge - modulo 2
02/02/2018	Dott. Rosati Gianluca	Generalità e normativa applicata ai MOCA (Materiali destinati a venire a contatto con gli alimenti)
02/02/2018	Dott. Vestrucci Gianluigi	Aspetti tecnici della produzione e del controllo igienico-sanitario dei MOCA (Materiali destinati a venire a contatto con gli alimenti)
10/02/2018	Dott. Traversa Donato	Impatto delle parassitosi sulla sanità pubblica e sulle produzioni animali
16/02/2018	Dott. Fico Rosario	Patologia forense veterinaria
03/03/2018	Dott. Magnani Gian Raffaele	Generalità e normativa applicata all'etichettatura degli alimenti (Parte I)
10/03/2018	Dott. Rosati Gianluca	Qualità dei processi di trasformazione dei prodotti di origine animale
17/03/2018	Dott. Magnani Gian Raffaele	Generalità e normativa applicata all'etichettatura degli alimenti (Parte II)
24/03/2018	Prof.ssa Calabrò Serena	Strategie alimentari per migliorare la qualità dei prodotti di origine animale
27/03/2018	Dott. Rosato Mario Alejandro	Moderatore seminari convegno Insect feed chick
27/03/2018	Dott. Marandola Danilo	Sostenibilità, innovazione, green economy: priorità dei PSR (Convegno Insect Feed Chick)
27/03/2018	Dott. Baldacchino Ferdinando	Esperienze maturate presso il Centro Ricerca ENEA della Trisaia nell'allevamento di <i>Tenebrio Mollitor</i> per la produzione di proteine (Convegno Insect Feed Chick)
27/03/2018	Dott. Meijer Nathan	Safe substrates for insects to feed food-producing animals (Convegno Insect Feed Chick)
27/03/2018	Dott. Sartori Alberto	Il progetto Insect Feed Chick - Innovation Brokering (Convegno Insect Feed Chick)
27/03/2018	Dott. Moretto Enzo	Potenzialità degli insetti per l'impiego zootecnico (Convegno Insect Feed Chick)
27/03/2018	Dott. Camerotto Paolo	Analisi delle recenti indicazioni del Ministero della Salute per la produzione e utilizzo di farine derivate dagli insetti nella preparazione di alimenti per animali (Convegno Insect Feed Chick)
27/03/2018	Prof. Baldan Gabriele	Propensione all'impiego di insetti in alimentazione animale e umana: un'indagine esplorativa (Convegno Insect Feed Chick)
27/03/2018	Dott. Polidoro Massimo	How to disseminate scientific knowledge - modulo 3
04/04/2018	Dott.ssa Tasoniero Giulia	La qualità delle carni avicole e i problemi delle miopatie
05/04/2018	Dott. Mioni Renzo	Controlli sulla sicurezza degli alimenti: riscontri pratici in funzione della normativa vigente
11/04/2018	Dott. Moro Arrigo	Il miele. Produzione e criteri di qualità
18/04/2018	Dott. Nardon Cristian	Il miele. Proprietà nutrizionali e tecniche di raccolta, conservazione e commercializzazione
20/04/2018	Prof. Mascarello Francesco	Aspetti di anatomia del muscolo applicata alla frollatura delle carni
15/05/2018	Prof. Traversa Donato	Parassiti broncopulmonari nel cane e nel gatto

19/05/2018	Dott. Giovanardi Davide	Patologie di maggior rilievo osservate nei comparti produttivi avicolo e suinicolo
21/05/2018	Prof.ssa Parisi Giuliana	Produzione e criteri di qualità dei prodotti ittici
04/06/2018	Prof. Bee Giuseppe	Livestock production: global future perspectives
04/06/2018	Prof. Strydom Phillip	Impact of meat production from intensive farming system
05/06/2018	Prof.ssa Parisi Giuliana	Meat quality of fish fed insects as feed ingredient
07/06/2018	Prof. Puolanne Eero	Poultry meat emerging myopathies: aetiology
08/06/2018	Prof. Strydom Phillip	The utilisation of indigenous goats as sources of meat in small scale African farming
05/07/2018	Dott. Pacileo Vincenzo	Il concetto giuridico di frode nella legislazione italiana e ruolo dell'Autorità giudiziaria come garante dell'autenticità dei prodotti alimentari
05/07/2018	Avv. Monari Neva	Diritti e doveri dei produttori di alimenti come garanti dell'autenticità degli alimenti
07/11/2018	Avv. Scarciglia Daria	Responsabilità civile e penale, protezione dei dati e uso responsabile degli strumenti informatici nella professione medico veterinaria
09/11/2018	Prof. Nanni Costa Leonardo	Animal Transport: Welfare on non-conventional animals during transport
16/11/2018	Dott. Guidi Riccardo	Aspetti pratici relativi per l'impostazione e lo sviluppo di procedure in un Manuale integrato di Gestione HACCP e Qualità (parte I)
17/11/2018	Dott. Guidi Riccardo	Aspetti pratici relativi per l'impostazione e lo sviluppo di procedure in un Manuale integrato di Gestione HACCP e Qualità (parte II)
30/11/2018	Dott. Guidi Riccardo	Esercitazioni per la scrittura di procedure in un Manuale integrato di Gestione HACCP e Qualità (parte I)
01/12/2018	Dott. Guidi Riccardo	Esercitazioni per la scrittura di procedure in un Manuale integrato di Gestione HACCP e Qualità (parte II)

**BCA EVENTS**

26/09/2016	Peter White	University of Sydney	<i>Pain, welfare and livestock management</i>
29/09/2016	Sandra Halwachs	University of Leipzig,	<i>Relevance of Drug transporters for Veterinary Pharmacotherapy</i>
24/10/2016	Jean Marie Delalande	Queen Mary University	<i>Of neural crest cells , smooth muscle &amp; vasculature development: what can a mutant chicken teach us?</i>
05/12/2016	Dr. Gregorio Iraola	Istitut Pasteur Montevideo - BioInformatics Unit	<i>Computational approaches in veterinary microbiology: examples on Campylobacter taxonomy and pathogenomics</i>
23/02/2017	Andres Krogh	University of Copenhagen	<i>Bioinformatics of High-throughput DNA sequencing</i>
17/05/2017	Paavo Honkakoski	University of Eastern Finland	<i>Molecular mechanisms of nuclear receptors in control of xenobiotic metabolism</i>
05/09/2017	Prof. Pietro Liò	University of Cambridge	<i>Methods to multi omic Phylogeny of gene families</i>
21/09/2017	Roger Coulombe	Utah State University	<i>Functional Genomics to Enhance Aflatoxin Resistance: Take a Walk on the Wild Side</i>
03/10/2017	Kevin McFarlane	Riserva Limpopo Lipadi - Botswana	<i>Managing wildlife species in protected areas</i>
13/11/2017	Ludovica Montanucci		<i>Understanding natural selection in molecular networks</i>
28/11/2017	Prof . Barbara Rutgen	University of Wien	<i>FLOW CYTOMETRY AND CELL CULTURE:Principles And Application</i>
29/11/2017	Prof . Barbara Rutgen	University of Wien	<i>Application On Flowcytometry And Cell Culture In Small Animal Oncology</i>
16/01/2018	Gregory Vogr	Conservation Guardians	<i>A conservation index for South Africa</i>
26/03/2018	Eva Maria Sierra Pulpillo	Universidad de Las Palmas de Gran Canaria	<i>Investigations on cetaceans' strandings: the biological pathogens at the Canary Islands</i>
17/04/2018	prof. Svetoslav D. Todorov	University of Sao Paulo	<i>Application of bacteriocins as biopreservative tools</i>
26/06/2018	Prof. Christian Badr	Massachusetts General Hospital/Harvard Medical School	<i>Brain Tumor Initiating Cells: Plasticity and Therapeutic Opportunities</i>
04/10/2018	prof. Jawhar Gharbi	Università di Monastir	<b><i>Cap independent translation initiation of Coxsackievirus B3: Mechanism and role in virulence attenuation</i></b>
18/10/2018	Prof.ssa Jalila Ben Salah-Abbés	Università di Monastir	<i>Food additives and contaminants - biocontrol and prevention</i>
16/18/23/25 ottobre	Prof. Wilhelm Schäfer	Università di Amburgo	

2018			
25/10/2018	prof. Christian Stauffer	BOKU Vienna	<i>Endosymbionts and their Potential Use in Insect Pest Management</i>
05/11/2018	prof. David Modry	University of Veterinary and Pharmaceutical Sciences	<i>How much do we share? Cross-transmission of parasitic diseases between great apes, humans and other animals</i>
30/11/2018	dr. Mughini - Gras	RIVM & Utrecht University	<i>Sources and transmission routes of zoonotic foodborne pathogens</i>
11/12/2018	dr. Greg Vogt	Conservation Guardians	<i>Conservation issues in South Africa</i>
22/03/2019	Dr. Sabrina Bandro	WAZA	<i>The importance of Wildlife Welfare Assessment</i>
Aprile 2019	Prof. Ari Sadanandom	Durham University,	<i>The role and regulation of ubiquitination and sumoylation in plant responses to stress</i>
09/04/2019	Dr. Augusto Vitale	Istituto Superiore Sanità	<i>Sperimentazione animale e benessere animale: un incontro possibile</i>
29/04/2019	Dr. Nadia Andrea Andreani		
24/05/2019	Prof. Tanakura	(Univ. of Tokyo	<i>Principles and applications of structural biology approaches in biotechnology and food technology</i>
29/05/2019	Prof. Inga Ciprovica	Latva University	<i>Food additives”</i>
29/05/2019	Dr. Jelena Jagorska	Latva University	<i>Shelf-life of food</i>
24/07/2019	Dr. Soares	Instituto Gulbenkian de Ciencia	<i>The chewing machine: evolution of mouth morphology in Drosophila larvae</i>
19/10/2019	Prof. Andeas Fahlman	Fundacion Oceanografic, Spain	<i>Diving Physiology in the Turtle: Stress causing gas emboli</i>
23/10/2019	Prof. Andeas Fahlman	Fundacion Oceanografic, Spain	<i>Cetacean Conservation Physiology: Recent advances from technological innovations</i>
25/10/2019*	Pierre Vandendriessche		
30/10/2019	dr. Schwarzer	Institute of Microbiology of the Czech Academy of Sciences	<i>Lactobacillus plantarumWJL promotes mouse juvenile growth during chronic undernutrition</i>



