Table 3.1.2 Curriculum hours taken by each student (excluding PPT)

Subjects	A	B	C[(2)]	D	E	F	G	H
Basic subjects	***75***			***14***				***89***
Medical physics	15			3				18
Chemistry (inorganic and organic sections)	30			5				35
Animal biology, zoology and cell biology	15			3				18
Plant biology								
Biomedical statistics	15			3				18
Basic science	***974***	***4***	***10***	***265***	***4***	***57***	***9***	***1.323***
Informatics technology	35			15				50
Anatomy including histology and embryology	152			49		6		207
Physiology	128			21		4		153
Biochemistry	30			5				35
General and molecular genetics	34			8		2	3	47
Pharmacology, pharmacy and chemotherapy	64			15		5		84
Pathology	117			50		11		178
Toxicology	27			7		2		36
Parasitology (and parasitic diseases)	84			28		9		121
Microbiology	23			10				33
Immunology	23			10				33
Epidemiology	15			7				22
*Information literacy and data management **	15			3				18
Professional ethics and communication	33			15				48
Animal health economics and practice management	10			2				12

Animal ethology	26	4			4	2		36
Animal welfare	25					7	3	35
Animal nutrition	80		10	10		8	2	110
Clinical sciences	***561***			***18***		***238***		***817***
Obstetrics, reproduction and reproductive disorders	85					35		120
Diagnostic pathology	87			18		40		145
Medicine	17					7		24
Surgery	33					15		48
Anaesthesiology	25					11		36
Clinical practical training in common animal species + Therapy in common animal species	172					68		240
Preventive medicine								
Diagnostic imaging	33					15		48
Propaedeutics of common animal species	109					47		156
Animal production	***137***			***22***	***7***	***9***	***20***	***195***
Animal production including breeding, husbandry and economics	122			22	7	2	20	173
Herd health management	15					7		22
Food Safety and Quality, Veterinary Public Health and One Health Concept	***129***	***4***		***27***	***61***	***24***		***245***
Veterinary legislation including official controls and regulatory veterinary services, forensic veterinary medicine and certification	31			15	10	24		80
Control of food, feed and animal by-products	43				41			84
Zoonoses	4			7				11

Food hygiene and food microbiology	13	4		5				22
Food technology	38				10			48
Total	***1.876***	***8***	***10***	***346***	***72***	***328***	***29***	***2.669***

A: lectures; B: seminars; C: supervised self-learning; D: laboratory and desk-based work; E: non-clinical animal work; F: clinical animal work; G: others (tutorial, multimedia, visits); H = total.

(1)Not as mandatory activities, but as a deepening and strengthening opportunity, a self-learning area that engages some subjects is currently active on the DVMSS website.

(2)Additional 33 total hours of English Language are taken by each student. Furthermore, additional 16 compulsory hours on safety and biosecurity in working spaces (without ECTS acquisition) are taken at 1st semester. The minimum total of 250h spent in Internship and for preparing the graduation thesis are not included in the Table.

* Information literacy and data management: during the IT course, 2 hours are spent in VTH Database students' registration and in digital university library system and access to electronic periodicals

Please note that in addition to the specific new teaching modules of 1 ECTS inserted in Special Zootechincs (Animal welfare) and 2 ECTS in Internal Medicine (Clinical evaluation of Animal Welfare) the animal welfare, is currently being treated in different disciplines, as a transversal topic with hours specifically dedicated to different aspects but difficult to quantify (physiological bases of stress, welfare in transport and in the pre-slaughtering stages, in experimental animals, etc.).

Main differences between old and new curriculum:

In order to make the curriculum more rational and fluent the following adjustments have been made:

1st year: The integrated course of "Rural Economy and Quality System Management" was poorly understood by first year students and it was dropped in third year (6th semester), when the knowledge and skills acquired allow a more effective application of the subject; In its place (2nd semester) the integrated course of "General zootechnics and genetic improvement" has been inserted, bringing it forward by 1 semester compared to the old curriculum;

2nd year: the "Botany" teaching module (which belonged to the Zoology and Botany integrated course) has been turned off, in order to obtain 2 ECTS to be spent on subjects not included in the old curriculum: precisely 1 ECTS was dedicated to the "Animal welfare" teaching module added to Special Zootechnics (4th semester) and the other to "Management of Veterinary Clinics and Communication" module added to Internal Medicine integrated course (9th semester); subsequently Zoology teaching module has been added to "Topographic Anatomy" (2nd semester), whereas the other teaching modules of Anatomy A and B have been reorganized in a more rational way, in order to obtain a more effective ECTS acquisition. Moreover, "Microbiology and Immunology" integrated course has been moved from 4th to 3rd semester (in place of "General Zootechnics and Genetic Improvement") and the "Animal Nutrition" teaching module has been merged with "Animal Feeding" and "Livestock Feed", so allowing the direct ECTS acquisition at the end of the 4th semester in the integrated course of "Animal Nutrition and Feeding".

3rd year: always with the aim of making the curriculum more effective, Chemotherapy, Toxicology and Pharmacology teaching modules have been merged together in the 5th semester avoiding unnecessary delays in the ECTS acquisition, as in the old curriculum they were placed in different semesters although belonged to the same integrated course. The same thing was done with "Parasitology" and "Parasitic Disease" that in the old curriculum were placed in the 5th and 6th semester, respectively, and now have been merged together in the 6th semester (so allowing students to take the corresponding exam at the end of the 6th semester). Moreover, as specified above, the "Rural Economy and Quality System Management" has been moved from 2nd to 6th semester. "Necropsy" teaching module has been moved from 6th to 9th semester (see below).

5th year: "Internal Medicine" integrated course (9th semester) has been reorganized, adding one teaching module (1 ECTS) in "Management of Veterinary Clinics and Communication" and another one (2 ECTS) in "Clinical Evaluation of Animal Welfare". These new two teaching modules have been merged with "Internal Medicine and Therapy in Pets" (4 ECTS) and "Internal Medicine and Therapy in Livestock" (3 ECTS). A new integrated course has been inserted in the 9th semester, containing "Necropsy" teaching module (4 ECTS) and "Veterinary Legislation and Professional Ethics" (2 ECTS).