



UNIVERSIDAD
COMPLUTENSE
MADRID

Facultad de Veterinaria



Self-Evaluation Report
Appendices and other relevant documents
EAEVE Visitation
Madrid, 2017



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Current academic staff, qualifications, their FTE, teaching responsibilities and departmental affiliations

Current academic staff, qualifications, their FTE, teaching responsibilities and departmental affiliations

Departmental Affiliation	Last Name	First name	Qualification	PhD	FTE	Teaching responsibilities
Anatomy and Compared Pathology	Blanquez Layunta	María José	Associate Professor	PhD	Full-time	Anatomy and Embriology I
Anatomy and Compared Pathology	Contreras Rodríguez	Julio	Associate Professor	PhD	Full-time	Anatomy and Embriology II
Anatomy and Compared Pathology	Gaspar Simón	Ignacio de	Associate Professor	PhD	Full-time	Anatomy and Embriology I
Anatomy and Compared Pathology	González Martínez	María Encina	Associate Professor	PhD	Full-time	Anatomy and Embriology II
Anatomy and Compared Pathology	González Soriano	Juncal Milagros	Full Professor	PhD	Full-time	Anatomy and Embriology II
Anatomy and Compared Pathology	López Rodríguez	Juan	Associate Teacher (37.5% Time)	NO	Part-time	Anatomy and Embriology II
Anatomy and Compared Pathology	Marín García	María del Pilar	Associate Professor	PhD	Full-time	Anatomy and Embriology I. History, Documentation and Theory of Veterinary Medicine. Clinical Medicine of Exotic Pets
Anatomy and Compared Pathology	Martín Alguacil	Nieves	Associate Professor	PhD	Full-time	Anatomy and Embriology I
Anatomy and Compared Pathology	Martín Ortí	Rosario	Associate Professor	PhD	Full-time	Anatomy and Embriology II

Anatomy and Compared Pathology	Martínez Sáinz	María del Pilar	Associate Professor	PhD	Full-time	Anatomy and Embriology II
Anatomy and Compared Pathology	Pérez Lloret	Pilar	Associate Teacher (75% Time)	PhD	Part-time	Anatomy and Embriology II
Anatomy and Compared Pathology	Rojo Salvador	Concepción	Associate Professor	PhD	Full-time	Anatomy and Embriology I
Anatomy and Compared Pathology	Santos Álvarez	Inmaculada	Assistant Teacher (75% Time)	PhD	Part-time	Anatomy and Embriology II
Animal Health	Alunda Rodríguez	José María	Full Professor	PhD	Full-time	Parasitology. Parasitic Diseases
Animal Health	Álvarez García	Gema	Associate Professor	PhD	Full-time	Parasitology. Parasitic Diseases. Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health. Clinical Rotation. Clinical Diagnosis by Laboratory
Animal Health	Aranaz Martín	Alicia	Associate Professor	PhD	Full-time	Microbiology and Immunology. Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health
Animal Health	Blanco Cancelo	José Luis	Full Professor	PhD	Full-time	Microbiology and Immunology. Clinical Rotation
Animal Health	Blanco Gutiérrez	María del Mar	Associate Professor	PhD	Full-time	Microbiology and Immunology. Infectious Diseases. History, Documentation and Theory of Veterinary Medicine

Animal Health	Bollo Bernabé	Jesús María	Associate Teacher (37.5% Time)	NO	Part-time	Infectious Diseases. Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health
Animal Health	Castro Arganda	José María	Full Professor	PhD	Full-time	Infectious Diseases. Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health. Clinical Rotation
Animal Health	Cid Vázquez	Dolores	Associate Professor	PhD	Full-time	Epidemiology. Infectious Diseases. Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health
Animal Health	Collantes Fernández	Esther	Associate Professor	PhD	Full-time	Parasitology. Parasitic Diseases. Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health. Clinical Rotation. Clinical Diagnosis by Laboratory
Animal Health	Cuquerella Ayensa	Montserrat	Associate Professor	PhD	Full-time	Parasitology. Parasitic Diseases
Animal Health	Cutulí de Simón	María Teresa	Associate Professor	PhD	Full-time	Microbiology and Immunology. Clinical Rotation. History, Documentation and Theory of Veterinary Medicine
Animal Health	Díez de Tejada Martín	M ^a Paloma	Associate Teacher (50% Time)	NO	Part-time	Infectious Diseases. Clinical Rotation
Animal Health	Díez Guerrier	Alberto Antoine	Associate Teacher (37.5% Time)	NO	Part-time	Clinical Rotation
Animal Health	Domenech Gómez	Ana María	Associate Professor	PhD	Full-time	Infectious Diseases. Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health. Clinical Rotation

Animal Health	Domínguez Bernal	Gustavo Ramón	Associate Professor	PhD	Full-time	Microbiology and Immunology. Infectious Diseases
Animal Health	Domínguez Rodríguez	Lucas	Full Professor	PhD	Full-time	Microbiology and Immunology
Animal Health	Fernández-Garayzabal Fernández	José Francisco	Full Professor	PhD	Full-time	Microbiology and Immunology. Clinical Diagnosis by Laboratory
Animal Health	Ferré Pérez	Ignacio	Associate Professor	PhD	Full-time	Parasitology. Parasitic Diseases. Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health. Clinical Rotation
Animal Health	Fraile Ocaña	Cristeta	Associate Teacher (50% Time)	NO	Part-time	Infectious Diseases. Clinical Rotation
Animal Health	Fuente López	Ricardo de la	Full Professor	PhD	Full-time	Epidemiology. Infectious Diseases
Animal Health	Fuente López	Concepción de la	Associate Professor	PhD	Full-time	Parasitology. Parasitic Diseases
Animal Health	García Cabrera	José Antonio	Associate Professor	PhD	Full-time	Infectious Diseases. Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health
Animal Health	García Sánchez	Marta Eulalia	Associate Professor	PhD	Full-time	Microbiology and Immunology
Animal Health	Gibello Prieto	Alicia	Associate Professor	PhD	Full-time	Microbiology and Immunology. Aquaculture and Fish Diseases

Animal Health	Gil Sevillano	Pedro	Associate Teacher (37.5% Time)	NO	Part-time	Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health
Animal Health	Gómez Bautista	Mercedes	Full Professor	PhD	Full-time	Parasitology. Parasitic Diseases
Animal Health	Gómez- Lucía Duato	María Esperanza	Full Professor	PhD	Full-time	Microbiology and Immunology
Animal Health	Gómez Muñoz	M ^a Teresa	Associate Professor	PhD	Full-time	Parasitology. Parasitic Diseases
Animal Health	González Zorn	Bruno	Associate Professor	PhD	Full-time	Microbiology and Immunology
Animal Health	Goyache Goñi	Joaquín	Associate Professor	PhD	Full-time	Microbiology and Immunology
Animal Health	Juan Ferre	Lucía de	Assistant Teacher	PhD	Full-time	Parasitology. Parasitic Diseases
Animal Health	Luzón Peña	Mónica	Associate Professor	PhD	Full-time	Parasitology. Parasitic Diseases
Animal Health	Martín Espada	M ^a del Carmen	Assistant Teacher (75% Time)	PhD	Part-time	Infectious Diseases. Clinical Rotation. Clinical Diagnosis by Laboratory
Animal Health	Martínez- Alesón Sanz	Ricardo	Associate Teacher (50% Time)	PhD	Part-time	Infectious Diseases. Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health. Clinical Rotation
Animal Health	Mateos García	Ana Isabel	Associate Professor	PhD	Full-time	Microbiology and Immunology

Animal Health	Meana Mañés	M ^a Aránzazu	Associate Professor	PhD	Full-time	Parasitology. Parasitic Diseases. Clinical Rotation. History, Documentation and Theory of Veterinary Medicine
Animal Health	Miró Corrales	Guadalupe	Associate Professor	PhD	Full-time	Parasitic Diseases. Clinical Rotation
Animal Health	Moreno Romo	Miguel Ángel	Full Professor	PhD	Full-time	Epidemiology. Microbiology and Immunology. Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health. Clinical Rotation
Animal Health	Olmeda García	Ángeles Sónia	Associate Professor	PhD	Full-time	Parasitology. Parasitic Diseases. Laboratory Animals
Animal Health	Órden Gutiérrez	José Antonio	Associate Professor	PhD	Full-time	Infectious Diseases
Animal Health	Ortega Mora	Luis Miguel	Full Professor	PhD	Full-time	Parasitology. Parasitic Diseases. Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health. Clinical Rotation
Animal Health	Prieto Suárez	María Cinta	Associate Professor	PhD	Full-time	Infectious Diseases. Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health. Clinical Rotation
Animal Health	Ruíz Santa Quiteria Santa Cruz	José Antonio	Associate Professor	PhD	Full-time	Epidemiology. Infectious Diseases
Animal Health	Rupérez Noguer	Cristina	Associate Teacher (50% Time)	NO	Part-time	Infectious Diseases. Clinical Rotation

Animal Health	Sánchez-Vizcaíno Rodríguez	José Manuel	Full Professor	PhD	Full-time	Infectious Diseases. Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health
Animal Health	Santurde Sánchez	Gloria	Associate Professor	PhD	Full-time	Infectious Diseases. Clinical Rotation. Laboratory Animals
Animal Health	Simarro Fernández	María Isabel	Full Professor	PhD	Full-time	Infectious Diseases. Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health. Clinical Rotation
Animal Health	Suárez Rodríguez	Mónica	Associate Professor	PhD	Full-time	Microbiology and Immunology. Infectious Diseases
Animal Health	Vela Alonso	Ana Isabel	Associate Professor	PhD	Full-time	Microbiology and Immunology. Aquaculture and Fish Diseases
Animal Medicine and Surgery	Aguado Domínguez	Delia	Assistant Teacher	PhD	Full-time	Clinical Rotation
Animal Medicine and Surgery	Álvarez Gómez de Segura	Ignacio	Associate Professor	PhD	Full-time	General Surgery and Anaesthesia. Clinical Rotation. Laboratory Animals
Animal Medicine and Surgery	Bengoa Rodríguez	Alfredo	Associate Professor	PhD	Full-time	Clinical Propaedeutics. Small Animal Internal Medicine. Clinical Medicine of Exotic Pets
Animal Medicine and Surgery	Blanco Murcia	Francisco Javier	Assistant Teacher	PhD	Full-time	Obstetrics and Reproduction I. Large Animal Internal Medicine. Obstetrics and Reproduction II. Special Surgery. Clinical Rotation

Animal Medicine and Surgery	Canfran Arrabé	Susana	Assistant Teacher	PhD	Full-time	General Surgery and Anaesthesia. Clinical Rotation
Animal Medicine and Surgery	Caro Vadillo	Alicia	Associate Professor	PhD	Full-time	Nosology and Physipathology. Clinical Propaedeutics. Radiology and Diagnostic Imaging. Small Animal Internal Medicine. Clinical Rotation. Clinical Diagnosis by Laboratory
Animal Medicine and Surgery	Castaño Rosado	María	Professor Emeritus (50% Time)	PhD	Part-time	Veterinary Special Pathology. History, Documentation and Theory of Veterinary Medicine
Animal Medicine and Surgery	Cediel Algovia	Rafael	Associate Professor	PhD	Full-time	General Surgery and Anaesthesia. Clinical Rotation
Animal Medicine and Surgery	Criado García	Fernando	Associate Teacher (75% Time)	NO	Part-time	Clinical Rotation
Animal Medicine and Surgery	Esteban Revilla	Eutiquio	Associate Teacher (37.5% Time)	NO	Part-time	Clinical Rotation
Animal Medicine and Surgery	Fermín Rodríguez	María Luisa	Associate Professor	NO	Full-time	Nosology and Physipathology. Clinical Propaedeutics. Small Animal Internal Medicine. Clinical Rotation. Clinical Diagnosis by Laboratory
Animal Medicine and Surgery	Fernández Sánchez	Jesús María	Associate Teacher (75% Time)	PhD	Part-time	Radiology and Diagnostic Imaging. General Surgery and Anaesthesia. Special Surgery. Clinical Rotation
Animal Medicine and Surgery	Flores Landeira	Juana María	Full Professor	PhD	Full-time	Veterinary Special Pathology. Clinical Rotation. Laboratory Animals

Animal Medicine and Surgery	Fominaya García	Hernán Luis	Associate Teacher (50% Time)	PhD	Part-time	Radiology and Diagnostic Imaging. Clinical Rotation
Animal Medicine and Surgery	Fores Jackson	Paloma	Associate Professor	PhD	Full-time	Nosology and Physipathology. Clinical Propaedeutics. Large Animal Internal Medicine. Clinical Rotation. Clinical Diagnosis by Laboratory
Animal Medicine and Surgery	Fragio Arnold	Cristina	Associate Professor	PhD	Full-time	Nosology and Physipathology. Clinical Propaedeutics. Small Animal Internal Medicine. Clinical Rotation. Clinical Diagnosis by Laboratory
Animal Medicine and Surgery	García Botey	Concepción	Associate Professor	PhD	Full-time	Obstetrics and Reproduction I. Obstetrics and Reproduction II. Special Surgery. Clinical Rotation
Animal Medicine and Surgery	García Fernández	Rosa Ana	Associate Professor	PhD	Full-time	General Pathology. Veterinary Special Pathology. Clinical Rotation
Animal Medicine and Surgery	García Fernández	Paloma	Associate Professor	PhD	Full-time	General Surgery and Anaesthesia. Special Surgery. Clinical Rotation
Animal Medicine and Surgery	García Palencia	María del Pilar	Associate Professor	PhD	Full-time	Veterinary Histology
Animal Medicine and Surgery	García Real	María Isabel	Associate Professor	PhD	Full-time	Radiology and Diagnostic Imaging. Clinical Rotation
Animal Medicine and Surgery	García-Sancho Téllez	Mercedes Guadalupe	Associate Professor	PhD	Full-time	Clinical Propaedeutics. Small Animal Internal Medicine. Clinical Rotation
Animal Medicine and Surgery	Gardoqui Arias	Manuel	Associate Teacher (62.5% Time)	NO	Part-time	General Surgery and Anaesthesia. Special Surgery. Clinical Rotation

Animal Medicine and Surgery	González Alonso-Alegre	Elisa Margarita	Associate Professor	PhD	Full-time	Clinical Propaedeutics. Special Surgery. Small Animal Internal Medicine. Clinical Rotation
Animal Medicine and Surgery	González Arribas	José Luis	Associate Professor	PhD	Full-time	Clinical Propaedeutics. Small Animal Internal Medicine. Clinical Rotation
Animal Medicine and Surgery	González Huecas	Marta	Associate Professor	PhD	Full-time	General Pathology. Veterinary Special Pathology. Clinical Rotation
Animal Medicine and Surgery	González Martín	Juan Vicente	Associate Professor (75% Time)	PhD	Part-time	Clinical Propaedeutics. Large Animal Internal Medicine. Special Surgery. Clinical Rotation. Clinical Diagnosis by Laboratory
Animal Medicine and Surgery	Goyoaga Elizalde	Jaime	Associate Teacher (75% Time)	NO	Part-time	Radiology and Diagnostic Imaging. General Surgery and Anaesthesia. Special Surgery. Clinical Rotation
Animal Medicine and Surgery	Herrán Vilella	Ramón Cayetano	Associate Teacher (75% Time)	NO	Part-time	General Surgery and Anaesthesia. Large Animal Internal Medicine. Special Surgery. Clinical Rotation
Animal Medicine and Surgery	Hidalgo Arroyo	Beatriz Eugenia	Associate Teacher (75% Time)	NO	Part-time	Radiology and Diagnostic Imaging. Clinical Rotation
Animal Medicine and Surgery	Jiménez Martínez	M ^a de los Ángeles	Assistant Teacher (75% Time)	PhD	Part-time	Veterinary Histology. Veterinary Special Pathology. Clinical Rotation
Animal Medicine and Surgery	Llorens Pena	María del Pilar	Associate Professor	PhD	Full-time	Radiology and Diagnostic Imaging. Clinical Rotation
Animal Medicine and Surgery	López San Román	Javier	Associate Professor	PhD	Full-time	General Surgery and Anaesthesia. Special Surgery. Clinical Rotation

Animal Medicine and Surgery	Martín Iniesta	Sonsoles	Associate Professor	PhD	Full-time	Nosology and Physipathology. Clinical Diagnosis by Laboratory
Animal Medicine and Surgery	Martínez de Merlo	Elena	Associate Professor	PhD	Full-time	Nosology and Physipathology. Clinical Propaedeutics. Small Animal Internal Medicine. Clinical Rotation. Clinical Diagnosis by Laboratory
Animal Medicine and Surgery	Martínez Madrid	Carmen Belén	Associate Professor	PhD	Full-time	Obstetrics and Reproduction I. Obstetrics and Reproduction II. Veterinary Sciences and Environment
Animal Medicine and Surgery	Mayenco Aguirre	Ana María	Associate Professor	PhD	Full-time	Obstetrics and Reproduction I. Obstetrics and Reproduction II. Clinical Rotation
Animal Medicine and Surgery	Mazzucchelli Jiménez	Francisco	Associate Professor	PhD	Full-time	Nosology and Physipathology. Clinical Propaedeutics. Large Animal Internal Medicine
Animal Medicine and Surgery	Palomo Yagüe	Antonio	Associate Teacher (75% Time)	NO	Part-time	Clinical Propaedeutics. Large Animal Internal Medicine
Animal Medicine and Surgery	Peña Fernández	Laura	Associate Professor	PhD	Full-time	General Pathology. Veterinary Special Pathology
Animal Medicine and Surgery	Pérez Alenza	María Dolores	Associate Professor	PhD	Full-time	Small Animal Internal Medicine. Clinical Rotation. Clinical Diagnosis by Laboratory
Animal Medicine and Surgery	Pérez Díaz	Carmen	Assistant Teacher	PhD	Full-time	General Surgery and Anaesthesia. Special Surgery. Small Animal Internal Medicine. Clinical Rotation
Animal Medicine and Surgery	Pérez Gutiérrez	José Félix	Associate Professor	PhD	Full-time	Obstetrics and Reproduction II. Veterinary Sciences and Environment

Animal Medicine and Surgery	Pérez-Salas Ochando	Juan Antonio	Associate Teacher (75% Time)	NO	Part-time	Obstetrics and Reproduction I. Obstetrics and Reproduction II. Clinical Rotation
Animal Medicine and Surgery	Pickering Thompson	Ximena Ruth	Professor Emeritus (50% Time)	NO	Part-time	Veterinary Histology
Animal Medicine and Surgery	Pizarro Díaz	Manuel	Associate Professor	PhD	Full-time	General Pathology. Veterinary Special Pathology. Clinical Rotation
Animal Medicine and Surgery	Re	Michela Tatiana	Assistant Teacher	PhD	Full-time	General Surgery and Anaesthesia. Special Surgery. Special Surgery. Clinical Rotation
Animal Medicine and Surgery	Rodríguez Álvaro	Alfonso	Associate Professor	PhD	Full-time	Special Surgery. Small Animal Internal Medicine. Clinical Rotation
Animal Medicine and Surgery	Rodríguez Bertos	Antonio Manuel	Associate Professor	PhD	Full-time	Veterinary Special Pathology. Clinical Rotation. Aquaculture and Fish Diseases
Animal Medicine and Surgery	Rodríguez Franco	Fernando	Associate Professor	PhD	Full-time	Nosology and Physipathology. Small Animal Internal Medicine. Clinical Rotation
Animal Medicine and Surgery	Rodríguez Quirós	Jesús	Associate Professor	PhD	Full-time	Clinical Propaedeutics. General Surgery and Anaesthesia. Special Surgery. Special Surgery. Clinical Rotation
Animal Medicine and Surgery	Rodríguez Sánchez	Manuel	Full Professor	PhD	Full-time	Large Animal Internal Medicine
Animal Medicine and Surgery	Rodríguez Sánchez	Juan	Associate Professor (75% Time)	NO	Part-time	Clinical Propaedeutics. Clinical Rotation
Animal Medicine and Surgery	Rollán Landeras	Eduardo Ricardo	Associate Professor	PhD	Full-time	Veterinary Special Pathology. Clinical Rotation. Clinical Diagnosis by Laboratory

Animal Medicine and Surgery	Ruíz de León Robledo	María de los Ángeles	Associate Professor	PhD	Full-time	Nosology and Physipathology. Clinical Propaedeutics. Radiology and Diagnostic Imaging. Large Animal Internal Medicine. Clinical Rotation
Animal Medicine and Surgery	Sainz Rodríguez	Ángel	Associate Professor	PhD	Full-time	Clinical Propaedeutics. Small Animal Internal Medicine. Clinical Rotation
Animal Medicine and Surgery	San Román Ascaso	Fidel	Full Professor	PhD	Full-time	General Surgery and Anaesthesia. Special Surgery. Clinical Rotation
Animal Medicine and Surgery	Sánchez Calabuig	María Jesús	Associate Teacher (37.5% Time)	PhD	Part-time	Obstetrics and Reproduction I. Obstetrics and Reproduction II. Clinical Rotation
Animal Medicine and Surgery	Sánchez de la Muela	Mercedes	Associate Professor	PhD	Full-time	General Surgery and Anaesthesia. Special Surgery. Clinical Rotation
Animal Medicine and Surgery	Sánchez Maldonado	María Belén	Associate Professor	PhD	Full-time	Veterinary Histology. Veterinary Special Pathology
Animal Medicine and Surgery	Sánchez Pérez	Ángeles	Associate Professor	PhD	Full-time	Veterinary Special Pathology. Clinical Rotation
Animal Medicine and Surgery	Serres Dalmau	Consuelo	Associate Professor	PhD	Full-time	Clinical Propaedeutics. Obstetrics and Reproduction I. Obstetrics and Reproduction II. Clinical Rotation
Animal Medicine and Surgery	Tabanera de Lucio	Enrique	Associate Teacher (75% Time)	PhD	Part-time	General Pathology. Veterinary Histology
Animal Medicine and Surgery	Toni Delgado	Paloma	Associate Professor	PhD	Full-time	Nosology and Physipathology. Clinical Propaedeutics. Small Animal Internal Medicine. Clinical Rotation. History, Documentation and Theory of Veterinary

Medicine						
Animal Medicine and Surgery	Trobo Muñiz	Juan Ignacio	Associate Professor	PhD	Full-time	General Surgery and Anaesthesia. Special Surgery. Clinical Rotation
Animal Medicine and Surgery	Varela del Arco	Marta	Associate Teacher (37.5% Time)	PhD	Part-time	Clinical Rotation
Animal Medicine and Surgery	Villaescusa Fernández	Alejandra	Assistant Teacher	PhD	Full-time	Nosology and Physipathology. Clinical Propaedeutics. Large Animal Internal Medicine. Clinical Rotation
Animal Physiology	Costa Buitrago	Gonzalo	Associate Professor	PhD	Full-time	Veterinary Physiology I. Veterinary Physiology II
Animal Physiology	Cuéllar Cariñanos	Carmen	Associate Teacher (37.5% Time)	PhD	Part-time	Chemistry, Zoology and Botany Applied to Veterinary
Animal Physiology	Elizalde Gómez	José Román	Associate Teacher (37.5% Time)	NO	Part-time	Chemistry, Zoology and Botany Applied to Veterinary
Animal Physiology	Fontanillas Pérez	Juan Carlos	Associate Professor	PhD	Full-time	Chemistry, Zoology and Botany Applied to Veterinary. Aquaculture and Fish Diseases
Animal Physiology	García Artiga	Carlos	Associate Professor	PhD	Full-time	Chemistry, Zoology and Botany Applied to Veterinary. Veterinary Sciences and Environment
Animal Physiology	García García	Rosa María	Associate Professor	PhD	Full-time	Veterinary Physiology I. Veterinary Physiology II

Animal Physiology	García Pascual	Ángeles	Associate Professor	PhD	Full-time	Veterinary Physiology I. Veterinary Physiology II
Animal Physiology	García-Cuenca Ariati	Isabel	Associate Professor	PhD	Full-time	Chemistry, Zoology and Botany Applied to Veterinary. Veterinary Sciences and Environment
Animal Physiology	González Gil	Alfredo	Associate Professor	PhD	Full-time	Veterinary Physiology II
Animal Physiology	Illera del Portal	Josefina	Associate Professor	PhD	Full-time	Veterinary Physiology I. Veterinary Physiology II. Laboratory Animals
Animal Physiology	Illera del Portal	Juan Carlos	Full Professor	PhD	Full-time	Veterinary Physiology I. Veterinary Physiology II. Laboratory Animals
Animal Physiology	Labadía Mazuecos	Alicia	Associate Professor	PhD	Full-time	Veterinary Physiology II
Animal Physiology	Lorenzo González	Pedro Luis	Associate Professor	PhD	Full-time	Veterinary Physiology I. Veterinary Physiology II
Animal Physiology	Martínez Mateos	María del Mar	Associate Professor	PhD	Full-time	Veterinary Physiology I
Animal Physiology	Millán Pastor	María del Pilar	Associate Professor	PhD	Full-time	Veterinary Physiology I. Veterinary Physiology II. Laboratory Animals
Animal Physiology	Pérez Fuentes	Javier	Associate Teacher (37.5% Time)	PhD	Part-time	Chemistry, Zoology and Botany Applied to Veterinary
Animal Physiology	Pérez Fuentes	Ana Adela	Associate Teacher (37.5% Time)	PhD	Part-time	Chemistry, Zoology and Botany Applied to Veterinary

Animal Physiology	Pérez Marcos	Concepción	Associate Professor	PhD	Full-time	Chemistry, Zoology and Botany Applied to Veterinary. Aquaculture and Fish Diseases
Animal Physiology	Picazo González	Rosa Ana	Associate Professor	PhD	Full-time	Veterinary Physiology I. Veterinary Physiology II. History, Documentation and Theory of Veterinary Medicine
Animal Physiology	Revuelta Rueda	Luis	Associate Professor	PhD	Full-time	Veterinary Physiology I. Veterinary Physiology II. Laboratory Animals
Animal Physiology	Silván Granado	Gema	Associate Professor	PhD	Full-time	Veterinary Physiology I. Veterinary Physiology II. Laboratory Animals
Animal Physiology	Triguero Robles	Domingo	Associate Professor	PhD	Full-time	Veterinary Physiology I. Veterinary Physiology II
Animal Production	Aguado Ramo	Juan Antonio	Associate Professor	NO	Full-time	Breeding and Animal Science II
Animal Production	Alía Robledo	María Jesús	Associate Professor	PhD	Full-time	Animal Science Bases I: Ethnology, Ethology, Animal Welfare and Veterinary Hygiene. Breeding and Animal Science I. Breeding and Animal Science II. Rotation in Animal Production. Veterinary Sciences and Environment
Animal Production	Arias Álvarez	María	Assistant Teacher	PhD	Full-time	Animal Science Bases I: Ethnology, Ethology, Animal Welfare and Veterinary Hygiene. Breeding and Animal Science I. Breeding and Animal Science II. Rotation in Animal Production

Animal Production	Arija Martín	Ignacio	Associate Professor	PhD	Full-time	Breeding and Animal Science I. Breeding and Animal Science II. Veterinary Animal Nutrition. Rotation in Animal Production. Laboratory Animals
Animal Production	Calahorra Fernández	Felipe José	Associate Professor	PhD	Full-time	Animal Production Basis II: Agronomy, Economics and Veterinary Business Management. Breeding and Animal Science I. Breeding and Animal Science II
Animal Production	Cañón Ferreras	Francisco Javier	Full Professor	PhD	Full-time	Animal breeding in species of veterinary interest. Breeding and Animal Science II. Rotation in Animal Production
Animal Production	Castaño Martín	Antonio José	Associate Professor	NO	Full-time	Animal Production Basis II: Agronomy, Economics and Veterinary Business Management. Breeding and Animal Science I. Breeding and Animal Science II. Rotation in Animal Production
Animal Production	Castro Madrigal	María Teresa	Associate Professor	PhD	Full-time	Breeding and Animal Science I. Breeding and Animal Science II. Veterinary Animal Nutrition. Rotation in Animal Production
Animal Production	Cervantes Navarro	Isabel	Assistant Teacher	PhD	Full-time	Genetics. Animal breeding in species of veterinary interest. Breeding and Animal Science II. Rotation in Animal Production. Veterinary Sciences and Environment
Animal Production	Cortes Gardyn	Oscar	Assistant Teacher (75% Time)	PhD	Part-time	Genetics. Animal breeding in species of veterinary interest. Breeding and Animal Science I. Breeding and Animal Science II. Rotation in Animal Production. History, Documentation and Theory of Veterinary Medicine

Animal Production	Costas Costas	Eduardo	Full Professor	PhD	Full-time	Genetics
Animal Production	Dunner Boxberger	Susana	Associate Professor	PhD	Full-time	Animal breeding in species of veterinary interest. Breeding and Animal Science I. Rotation in Animal Production
Animal Production	Elices Mínguez	Roberto	Associate Professor	PhD	Full-time	Breeding and Animal Science I. Breeding and Animal Science II. Veterinary Animal Nutrition. Rotation in Animal Production
Animal Production	Fernández-Muela Garrote	Montserrat	Associate Teacher (75% Time)	NO	Part-time	Animal Science Bases I: Ethnology, Ethology, Animal Welfare and Veterinary Hygiene. Breeding and Animal Science I. Breeding and Animal Science II. Rotation in Animal Production
Animal Production	Fuente Vazquez	Jesús de la	Associate Professor	PhD	Full-time	Animal Science Bases I: Ethnology, Ethology, Animal Welfare and Veterinary Hygiene. Breeding and Animal Science I. Breeding and Animal Science II. Rotation in Animal Production. Aquaculture and Fish Diseases
Animal Production	González de Chavarri Echániz	Elisabeth	Associate Professor	PhD	Full-time	Animal Science Bases I: Ethnology, Ethology, Animal Welfare and Veterinary Hygiene. Breeding and Animal Science I. Breeding and Animal Science II. Rotation in Animal Production. Aquaculture and Fish Diseases
Animal Production	Gutiérrez García	Juan Pablo	Associate Professor	PhD	Full-time	Animal breeding in species of veterinary interest. Breeding and Animal Science II

Animal Production	Ibañez Talegón	Miguel	Associate Professor	PhD	Full-time	Animal Science Bases I: Ethnology, Ethology, Animal Welfare and Veterinary Hygiene. Clinical Medicine of Exotic Pets
Animal Production	Isabel Redondo	Beatriz	Associate Professor	PhD	Full-time	Breeding and Animal Science I. Breeding and Animal Science II. Veterinary Animal Nutrition. Rotation in Animal Production. Veterinary Sciences and Environment
Animal Production	Lauzurica Gómez	María Ascensión Sara	Associate Professor	PhD	Full-time	Animal Science Bases I: Ethnology, Ethology, Animal Welfare and Veterinary Hygiene. Breeding and Animal Science I. Breeding and Animal Science II. Rotation in Animal Production
Animal Production	López Rodas	Victoria	Full Professor	PhD	Full-time	Genetics
Animal Production	Más Álvarez	Blanca	Associate Professor	PhD	Full-time	Animal Science Bases I: Ethnology, Ethology, Animal Welfare and Veterinary Hygiene. Breeding and Animal Science I. Breeding and Animal Science II. Aquaculture and Fish Diseases. Rotation in Animal Production
Animal Production	Navarro Rubio	Carmen Macarena	Associate Professor	PhD	Full-time	Genetics
Animal Production	Olivares Moreno	Alvaro	Assistant Teacher	PhD	Full-time	Animal Science Bases I: Ethnology, Ethology, Animal Welfare and Veterinary Hygiene. Breeding and Animal Science I. Breeding and Animal Science II. Rotation in Animal Production

Animal Production	Ortiz Vera	Luis Tomás	Associate Professor	PhD	Full-time	Animal Production Basis II: Agronomy, Economics and Veterinary Business Management
Animal Production	Pérez Cabal	M ^a de los Ángeles	Associate Professor	PhD	Full-time	Genetics. Animal breeding in species of veterinary interest. Breeding and Animal Science II. Rotation in Animal Production
Animal Production	Rebolé Garrigos	Almudena	Associate Professor	PhD	Full-time	Animal Production Basis II: Agronomy, Economics and Veterinary Business Management. Breeding and Animal Science I. Breeding and Animal Science II. Rotation in Animal Production. Veterinary Sciences and Environment
Animal Production	Rey Muñoz	Ana Isabel	Associate Professor	PhD	Full-time	Breeding and Animal Science I. Breeding and Animal Science II. Veterinary Animal Nutrition. Rotation in Animal Production. Aquaculture and Fish Diseases
Animal Production	Rodríguez Membibre	María Luisa	Associate Professor	PhD	Full-time	Animal Production Basis II: Agronomy, Economics and Veterinary Business Management. Veterinary Sciences and Environment
Animal Production	Rouco Pérez	Pedro Fernando	Associate Professor	PhD	Full-time	Animal Production Basis II: Agronomy, Economics and Veterinary Business Management
Animal Production	Salazar Mendoza	Isabel	Associate Professor	PhD	Full-time	Physics and Biostatistics Applied to Veterinary
Animal Production	Velasco Villar	Susana	Associate Professor	PhD	Full-time	Animal Production Basis II: Agronomy, Economics and Veterinary Business Management. Breeding and Animal Science I. Breeding and Animal Science II.

						Rotation in Animal Production. Veterinary Sciences and Environment
Animal Production	Viveros Montoro	Agustín	Associate Professor	PhD	Full-time	Breeding and Animal Science I. Veterinary Animal Nutrition
Biochemistry and Molecular Biology IV	Bautista Santa Cruz	José Manuel	Full Professor	PhD	Full-time	Biochemistry and Molecular Biology. History, Documentation and Theory of Veterinary Medicine
Biochemistry and Molecular Biology IV	Bosca Gomar	Lisardo	Associate Teacher (37.5% Time)	PhD	Part-time	Biochemistry and Molecular Biology
Biochemistry and Molecular Biology IV	Díaz Hernández	Miguel	Associate Professor	PhD	Full-time	Biochemistry and Molecular Biology. Chemistry, Zoology and Botany Applied to Veterinary
Biochemistry and Molecular Biology IV	Díez Martín	Amalia	Associate Professor	PhD	Full-time	Biochemistry and Molecular Biology
Biochemistry and Molecular Biology IV	Gallego Iniesta	María Milagrosa	Professor Emeritus (50% Time)	PhD	Part-time	Biochemistry and Molecular Biology
Biochemistry and Molecular Biology IV	García Delicado	Esmerilda	Associate Professor	PhD	Full-time	Biochemistry and Molecular Biology
Biochemistry and Molecular Biology IV	Gualix Sánchez	Francisco Javier	Associate Professor	PhD	Full-time	Biochemistry and Molecular Biology. Chemistry, Zoology and Botany Applied to Veterinary

Biochemistry and Molecular Biology IV	Martín Fernández	Margarita	Associate Professor	PhD	Full-time	Biochemistry and Molecular Biology
Biochemistry and Molecular Biology IV	Miras Portugal	María Teresa	Full Professor	PhD	Full-time	Biochemistry and Molecular Biology
Biochemistry and Molecular Biology IV	Pérez Sen	Raquel	Associate Professor	PhD	Full-time	Biochemistry and Molecular Biology
Biochemistry and Molecular Biology IV	Puyet Catalina	Antonio	Associate Professor	PhD	Full-time	Biochemistry and Molecular Biology
Biochemistry and Molecular Biology IV	Sánchez-Prieto Borja	José	Full Professor	PhD	Full-time	Biochemistry and Molecular Biology
Biochemistry and Molecular Biology IV	Tejero Ortego	Concepción	Associate Professor	PhD	Full-time	Biochemistry and Molecular Biology
Biochemistry and Molecular Biology IV	Torres Molina	Magdalena Isabel	Full Professor	PhD	Full-time	Biochemistry and Molecular Biology
Food Science and Technology	Cabeza Briales	María Concepción	Assistant Teacher	PhD	Full-time	Food Technology. Rotation in Food Hygiene and Technology
Food Science and Technology	Cambero Rodríguez	Isabel	Associate Professor	PhD	Full-time	Food Technology. Rotation in Food Hygiene and Technology
Food Science and Technology	Celaya Carrillo	Carlos	Associate Teacher (75% Time)	PhD	Part-time	Food Hygiene and Inspection, and Food Safety

Food Science and Technology	Cintas Izarra	Luis Miguel	Associate Professor	PhD	Full-time	Food Hygiene and Inspection, and Food Safety
Food Science and Technology	Fajardo Adán	María del Carmen	Associate Teacher (37.5% Time)	NO	Part-time	Food Technology
Food Science and Technology	Fernández Álvarez	María Fernanda	Associate Professor	PhD	Full-time	Food Hygiene and Inspection, and Food Safety
Food Science and Technology	Fernández Álvarez	Leónides	Associate Professor	PhD	Full-time	Food Technology. Rotation in Food Hygiene and Technology
Food Science and Technology	Fernández Álvarez	Manuela	Associate Professor	PhD	Full-time	Food Technology. Rotation in Food Hygiene and Technology
Food Science and Technology	Fernández León	M ^a Fernanda	Assistant Teacher	PhD	Full-time	Rotation in Food Hygiene and Technology
Food Science and Technology	García de Fernando Minguillón	Gonzalo Doroteo	Full Professor	PhD	Full-time	Food Technology. Rotation in Food Hygiene and Technology
Food Science and Technology	García Lacarra	María Teresa	Associate Professor	PhD	Full-time	Food Hygiene and Inspection, and Food Safety
Food Science and Technology	García Sanz	María Luisa	Associate Professor	PhD	Full-time	Food Technology. Rotation in Food Hygiene and Technology
Food Science and Technology	González Alonso	M ^a Isabel	Associate Professor	PhD	Full-time	Food Hygiene and Inspection, and Food Safety. Rotation in Food Hygiene and Technology
Food Science and Technology	Haza Duaso	Ana Isabel	Associate Professor	PhD	Full-time	Food Hygiene and Inspection, and Food Safety. Rotation in Food Hygiene and

						Technology
Food Science and Technology	Hernández Cruza	Pablo Elpidio	Full Professor	PhD	Full-time	Food Hygiene and Inspection, and Food Safety
Food Science and Technology	Herranz Sorribes	Carmen	Associate Professor	PhD	Full-time	Food Hygiene and Inspection, and Food Safety. Rotation in Food Hygiene and Technology. Veterinary Sciences and Environment
Food Science and Technology	Hierro Paredes	Eva María	Associate Professor	PhD	Full-time	Food Technology. Rotation in Food Hygiene and Technology
Food Science and Technology	Jiménez Quintana	Esther Antonia	Associate Teacher (37.5% Time)	NO	Part-time	Rotation in Food Hygiene and Technology
Food Science and Technology	Mariblanca Lozano	José Luis	Associate Teacher (75% Time)	NO	Part-time	Food Hygiene and Inspection, and Food Safety
Food Science and Technology	Marín Martínez	María Luisa	Associate Professor	PhD	Full-time	Food Hygiene and Inspection, and Food Safety
Food Science and Technology	Martín de Santos	Rosario	Full Professor	PhD	Full-time	Food Hygiene and Inspection, and Food Safety
Food Science and Technology	Martínez Corbacho	José María	Associate Teacher (75% Time)	PhD	Part-time	Food Hygiene and Inspection, and Food Safety
Food Science and Technology	Miguel Casado	Eugenio José	Associate Teacher (75% Time)	PhD	Part-time	Food Technology

Food Science and Technology	Morales Gómez	Paloma	Associate Professor	PhD	Full-time	Food Hygiene and Inspection, and Food Safety
Food Science and Technology	Moreno Conde	Helena M ^a	Associate Teacher (75% Time)	NO	Part-time	Food Technology
Food Science and Technology	Orgaz Martín	Belén	Associate Professor	PhD	Full-time	Food Technology
Food Science and Technology	Rodríguez Gómez	Juan Miguel	Full Professor	PhD	Full-time	Food Hygiene and Inspection, and Food Safety. Rotation in Food Hygiene and Technology. History, Documentation and Theory of Veterinary Medicine
Food Science and Technology	Romero de Ávila Hidalgo	M ^a Dolores	Assistant Teacher	PhD	Full-time	Food Technology
Food Science and Technology	San José Serrán	Carmen	Full Professor	PhD	Full-time	Food Technology
Food Science and Technology	Selgas Cortecero	María Dolores	Full Professor	PhD	Full-time	Food Technology. Veterinary Sciences and Environment
Food Science and Technology	Velasco de Diego	Raquel	Associate Teacher (75% Time)	NO	Part-time	Rotation in Food Hygiene and Technology
Toxicology and Pharmacology	Anadón Navarro	Arturo	Full Professor	PhD	Full-time	Deontology, Legal Medicine and Legislation. Toxicology. Laboratory Animals

Toxicology and Pharmacology	Ares Lombán	Irma	Associate Professor	PhD	Full-time	Deontology, Legal Medicine and Legislation. Toxicology. History, Documentation and Theory of Veterinary Medicine
Toxicology and Pharmacology	Barahona Gomáriz	María Victoria	Associate Professor	PhD	Full-time	Pharmacology and Pharmacy. Clinical Pharmacology and Pharmacotherapeutics
Toxicology and Pharmacology	Castellano Santos	Victor Jesús	Associate Teacher (75% Time)	PhD	Part-time	Deontology, Legal Medicine and Legislation. Toxicology
Toxicology and Pharmacology	Díaz Plaza	María Jesús	Associate Professor	PhD	Full-time	Deontology, Legal Medicine and Legislation. Toxicology
Toxicology and Pharmacology	Encinas Cerezo	María Teresa	Associate Professor	PhD	Full-time	Pharmacology and Pharmacy. Clinical Pharmacology and Pharmacotherapeutics. Clinical Medicine of Exotic Pets
Toxicology and Pharmacology	Frejo Moya	María Teresa	Associate Professor	PhD	Full-time	Deontology, Legal Medicine and Legislation. Toxicology. Veterinary Sciences and Environment
Toxicology and Pharmacology	Gilabert Santos	Juan Antonio	Associate Professor	PhD	Full-time	Pharmacology and Pharmacy. Clinical Pharmacology and Pharmacotherapeutics. Clinical Medicine of Exotic Pets
Toxicology and Pharmacology	González Gómez	Fernando	Associate Professor	PhD	Full-time	Pharmacology and Pharmacy. Clinical Pharmacology and Pharmacotherapeutics. Clinical Medicine of Exotic Pets
Toxicology and Pharmacology	Lobo Alonso	Margarita	Associate Teacher (75% Time)	PhD	Part-time	Toxicology
Toxicology and Pharmacology	Lucas Burneo	José Julio de	Associate Professor	PhD	Full-time	Pharmacology and Pharmacy. Clinical Pharmacology and Pharmacotherapeutics. Clinical Medicine of Exotic Pets

Toxicology and Pharmacology	Martínez Caballero	Marta	Associate Teacher (75% Time)	PhD	Part-time	Deontology, Legal Medicine and Legislation. Toxicology. Laboratory Animals
Toxicology and Pharmacology	Martínez Caballero	María Aránzazu	Associate Professor	PhD	Full-time	Deontology, Legal Medicine and Legislation. Toxicology
Toxicology and Pharmacology	Martínez Larrañaga	María Rosa	Professor Emeritus (50% Time)	PhD	Part-time	Deontology, Legal Medicine and Legislation
Toxicology and Pharmacology	Olivos Ore	Luis Alcides	Assistant Teacher	PhD	Full-time	Pharmacology and Pharmacy. Clinical Pharmacology and Pharmacotherapeutics
Toxicology and Pharmacology	Pino Sans	Javier del	Assistant Teacher	PhD	Full-time	Deontology, Legal Medicine and Legislation. Toxicology
Toxicology and Pharmacology	Ramos Alonso	Eva	Assistant Teacher	PhD	Full-time	Deontology, Legal Medicine and Legislation. Toxicology
Toxicology and Pharmacology	Rodríguez Artalejo	Antonio	Full Professor	PhD	Full-time	Pharmacology and Pharmacy. Clinical Pharmacology and Pharmacotherapeutics
Toxicology and Pharmacology	Rodríguez Fernández	Casilda	Associate Professor	PhD	Full-time	Pharmacology and Pharmacy. Clinical Pharmacology and Pharmacotherapeutics. Clinical Medicine of Exotic Pets
Toxicology and Pharmacology	Romero Martínez	Manuel Alejandro	Assistant Teacher	PhD	Full-time	Deontology, Legal Medicine and Legislation. Toxicology. Aquaculture and Fish Diseases
Toxicology and Pharmacology	Ros Rodríguez	José María	Associate Professor	PhD	Full-time	Pharmacology and Pharmacy. Clinical Pharmacology and Pharmacotherapeutics. Clinical Medicine of Exotic Pets

Toxicology and Pharmacology	San Andrés Larrea	Manuel Ignacio	Associate Professor	PhD	Full-time	Pharmacology and Pharmacy. Clinical Pharmacology and Pharmacotherapeutics. Clinical Medicine of Exotic Pets
Toxicology and Pharmacology	San Andrés Larrea	María Dolores	Associate Professor	PhD	Full-time	Pharmacology and Pharmacy. Clinical Pharmacology and Pharmacotherapeutics. Clinical Medicine of Exotic Pets
Toxicology and Pharmacology	Sánchez de Lollano Prieto	Joaquín de	Associate Professor	PhD	Full-time	History, Documentation and Theory of Veterinary Medicine
Toxicology and Pharmacology	Sánchez-Fortún Rodríguez	Sebastian	Associate Professor	PhD	Full-time	Deontology, Legal Medicine and Legislation. Toxicology. Aquaculture and Fish Diseases
Section of Physics	Fortún García	Adelia	Associate Professor	PhD	Full-time	Physics and Biostatistics Applied to Veterinary. Veterinary Sciences and Environment
Section of Physics	García López de Sa	Teresa de Jesús María	Associate Professor	PhD	Full-time	Physics and Biostatistics Applied to Veterinary
Section of Physics	Martín Checa	Jesús Carlos	Associate Teacher (37.5% Time)	NO	Part-time	Physics and Biostatistics Applied to Veterinary

Appendix 2.a.

Units of study of the core veterinary programme (including clinical rotations, EPT and graduation thesis): title, reference number, ECTS value, position in curriculum (year, semester), whether it is compulsory

Appendix 2.a. Units of study of the core veterinary programme (including clinical rotations, EPT and graduation thesis): title, reference number, ECTS value, position in curriculum (year, semester), whether it is compulsory or elective, hours and modes of instruction, learning outcomes.

UNITS OF STUDY OF THE CORE VETERINARY PROGRAMME

ANATOMY AND EMBRYOLOGY I					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction and hours	Learning outcomes
803795	9	1:1-2	Compulsory	Lectures: 56.25 Seminars/Tutorials: 3.75 Laboratory: 43.75 Exams: 8.75 Supervised self-learning: 0	OBJECTIVES To achieve basic knowledge on anatomy and embryology of the domestic animals. To learn the anatomical differences among the different species. Clinical-, animal production- and animal health-applied learning. To achieve manual skills by performing dissections. LEARNING OUTCOMES CE-AN1. To know and apply the anatomical and embryological language to the different structures of domestic animals. CE-AN2. To identify the different bones from the domestic animal skeleton. CE-AN3. To acquire the skills for the dissection of the different structures of the locomotive system and body cavities. CE-AN4. To know the different systems of the organism of the domestic animals and their organs. CE-AN5. To apply the achieved knowledge in the Topographic, Comparative and Applied Anatomy of the different domestic species. CE-AN6. To know the embryological development of the different body systems of domestic animals and the congenital malformation that may occur during that development.

ANIMAL SCIENCE BASES I: ETHNOLOGY, ETHOLOGY, ANIMAL WELFARE AND VETERINARY HYGIENE					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803799	6	1:1-2	Compulsory	Lectures: 40 Seminars/Tutorials: 7 Laboratory: 11 Exams: 2 Supervised self-learning: 0	OBJECTIVES To establish the bases of the animal behavior, providing knowledge on the main species. To provide students with the bases to detect abnormal behavior of animals and safeguard their welfare. To get familiar with the rules and laws on animal protection and animal welfare. To establish the bases of the different livestock production and of the different production systems considering the necessary hygiene and animal health, safeguarding their welfare and environmental conservation. To train students in the knowledge of the external appearance of the domestic animals, providing them with tools to detect faults and defects to assess their conformation. To train the students to be able to determine the age of the domestic animals, identifying the different coats and characteristics of animals. To provide students with techniques and methods of animal identification. Knowledge, identification and differentiation of the main breeds of domestic animals. Training for the evaluation of the productive ability of the different breeds of domestic animals. LEARNING OUTCOMES CE-BPAI1. Knowledge of the external morphology and zoometric methods, age determination and identification. CE-BPAI2. Identification of the different livestock breeds and knowledge of its main characteristics for functionality and adaptability to different production systems and environment, with particular reference to sustainable production and conservation of autochthonous breeds. CE-BPAI3. Identification of different productive breeds framed in official catalogs; herdbooks operation and establishment of concepts related to breed standards and production systems in the certificates of origin and brands of quality. CE-BPAI4. Knowledge and classification of the different breeds of pets and sport animals in relation to their morphology and ability. CE-BPAI5. Knowledge of the concepts and bases of animal behavior and its control mechanisms. CE-BPAI6. Knowledge of the animal welfare importance in the professional practice, with particular reference to the proper handling of animals, as well as to the providing of a suitable environment and housing in relation to the particular needs of the species. Welfare and protection during transport and slaughter. CE-BPAI7. Knowledge of animal welfare indicators and evaluation methods. CE-BPAI8. Diagnosis of problems related to animal welfare in the different species of

					domestic animals. CE-BPAI9. Knowledge of the physiozootechnical bases necessary for animal production and the different animal production systems in order to achieve the maximum efficiency while respecting the animal welfare and the environment. CE-BPAI10. Knowledge of the principles and measures of the veterinary hygiene applicable to the housing, facilities and equipment to house and transport animals. Hygienic and sanitary bases of the facilities for animal breeding.

BIOCHEMISTRY AND MOLECULAR BIOLOGY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803792	8	1:1-2	Compulsory	Lectures: 62.50 Seminars/Tutorials: 16.25 Laboratory: 17.50 Exams: 3.75 Supervised self-learning: 0	OBJECTIVES To introduce the basic language of biochemistry and fundamental concepts and principles in mammalian and prokaryote with an emphasis on those of mammalian tissues. To analyze the structure / function of proteins as the base of metabolism and related diseases. To provide detailed knowledge of the processes involved in the maintenance and expression of the genetic material and the regulation thereof. To know the overall functionality of the genomes in living organisms from a transcriptomic and proteomic point of view. To provide the molecular foundation that enables students to understand techniques such as genetic manipulation, applications of biotechnology to medicine and veterinary industry. To identify the molecular and functional interactions in complex biological systems. To study the metabolic pathways, their control and the metabolic interrelationships. To relate biochemical events at the cellular level to physiological processes in the whole animal. To understand signal transduction between cells and the role of hormones and second messengers in cellular communication. To demonstrate how the biological and biochemical approaches have advanced molecular veterinary medicine explaining particular events in the normal or in the diseased or defective states. LEARNING OUTCOMES CE-BQ1. To differentiate the different types of protein structures, identifying their structure-function relationships. CE-BQ2. To explain the kinetics and mechanisms of regulation and control of enzymes. CE-BQ3. To differentiate the reactions that constitutes the intermediary metabolism. To explain the mechanisms of control and integration of the different pathways of the metabolism, relating the activity of the different cellular compartments. CE-BQ4. To explain the molecular mechanisms responsible for transduction of extracellular signals. CE-BQ5. To explain the molecular mechanisms responsible for DNA replication, transcription and processing of RNAs, and translation of mRNAs and its regulation. CE-BQ6. To isolate and characterize DNA. CE-BQ7. To explain the molecular bases of disease in animals. CE-BQ8. To manage the basic equipment of a biochemistry laboratory and to use different techniques in biochemistry and molecular biology. CE-BQ9. To contrast techniques for quantification and purification of biological

					macromolecules. CE-BQ10. To obtain and manage data from databases of DNA and protein sequences.

DEONTOLOGY, LEGAL MEDICINE AND LEGISLATION					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803798	3	1:1	Compulsory	Lectures: 22.50 Seminars/Tutorials: 11.25 Laboratory: 7.50 Exams: 3.75 Supervised self-learning: 0	OBJECTIVES The course is divided into three parts: 1. Deontological aspects related to the veterinary profession in particular the reasons why certain actions are performed. To make the correct moral choices, the student has to understand what our liability and moral duties are and what correct rules exist to regulate those duties. The teaching course offers an approach to the study of law and society, ethical and legal issues that arise in animal health care and related fields, reflects the legal and social context in which animal health care practice is situated. 2. Legal Medicine considered being the field of study and accumulation of materials that deals with the application of medical knowledge to the administration of justice. Legal medicine provides to student knowledge on clinical aspects of forensic toxicology which involves the use of toxicology for the purposes of the law (post-mortem investigations). 3. Legislation, this part provides to student knowledge of the current regulatory programs and administrative bodies or Agencies involved for regulating chemical hazards such as laws and rules protecting human and animal health and the environment, veterinary drugs, biocides and pesticides, and animal welfare regulations. LEARNING OUTCOMES CE-DML1. To know and understand the fundamentals of Deontology, Legislation and Legal Medicine. CE-DML2. Knowledge of the legal framework in which veterinary professional activities are developed. CE-DML3 To know the essential elements of the veterinary profession, including ethical and deontological principles. CE-DML4. Basic knowledge of medical ethics and bioethics. CE-DML5. To know the legal responsibility for veterinary procedures (civil, criminal and administrative). CE-DML6. Knowledge of the legal veterinary, formal forensic practice, legal relations between veterinary and law. CE-DML7. To advise and make judicial and extrajudicial veterinary expert reports (medico legal reports). CE-DML8. Basic knowledge of traumatology and forensic thanatology, and expert reports.

					CE-DML9. Knowledge and assessment of environmental damage by livestock and food processing activities. CE-DML10. Knowledge of the legal bases for trading animals and the animal use in sports competitions. CE-DML11. Basic knowledge of National law (Institutions, Agencies and Administration of Justice). CE-DML12. Basic knowledge of Community law (Institutions, Agencies and decentralized agencies). CE-DML13. Knowledge and updating of the legislation on additives and substances intended for animal feed, veterinary medicines, biocides and pesticides, GMOs, environment, use of experimental animals, animal welfare and protection.

EPIDEMIOLOGY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803797	3	1:2	Compulsory	Lectures: 22.50 Seminars/Tutorials: 3 Laboratory: 4.50 Exams: 2.50 Supervised self-learning: 5	OBJECTIVES To introduce the knowledge of Epidemiology with particular attention to the basic concepts and their applications in the Degree in Veterinary. LEARNING OUTCOMES CE-EPI1. To know and use properly the epidemiologic concepts. CE-EPI2. To know, understand, interpret and calculate the basic epidemiological measures. CE-EPI3. To know and understand the basic elements of the design of epidemiological studies. CE-EPI4. To understand and interpret scientific papers on Epidemiology. CE-EPI5. To use software useful in Epidemiology.

PHYSICS AND BIOSTATISTICS APLIED TO VETERINARY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803790	6	1:1	Compulsory	Lectures: 31.75 Seminars/Tutorials: 29.25 Laboratory: 10 Exams: 4 Supervised self-learning: 0	OBJECTIVES PHYSICS: Acquisition by students of knowledge of basic physics to understand and apply to the study of veterinary processes. BIOSTATISTICS: Introduce students to the fundamentals of Biostatistics and the basics of scientific method LEARNING OUTCOMES CE-F1. To formulate basic concepts of elasticity and fluid conservation principles and their application to animal organisms. CE-F2. To apply the fundamentals of electricity in the study of bioelectric phenomena of biological membranes. CE-F3. To describe the conceptual bases and mathematics of wave motion, both mechanical or pressure waves and electromagnetic waves and apply it to hearing and vision systems. CE-F4. To know basics aspects of radioactivity. CE-F5. To apply the physical bases of biological processes to the resolution of veterinary problems. CE-B1. Knowledge of basic concepts of probability. CE-B2. Ability to synthesize and analyze descriptive and graphically a data set. CE-B3. Knowledge of the random variables in biological processes. CE-B4. Skill in the calculation and interpretation of regression and correlation. CE-B5. Knowledge of the techniques of parametric and nonparametric inference.

VETERINARY PHYSIOLOGY I					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803796	6	1:2	Compulsory	Lectures: 47 Seminars/Tutorials: 12 Laboratory: 14 Exams: 2 Supervised self-learning: 0	OBJECTIVES A) To integrate knowledge on organisms' structure and function of blood, excitable tissue, digestive system, cardiovascular system, respiratory system and renal system as well as their physiological processes that occurs in them in relation to the external and internal environment using general ideas about homeostasis. B) To study the different physiological systems in relation to the organs composing them (blood, excitable tissue, digestive system, cardiovascular system, respiratory system and renal system) its interrelationships, the organic variables that they control, the physiological mechanisms (physical and chemical) acting in them and the regulation systems they depend on for its stability. C) To recognize compartments involved in a physiological process relative to blood, excitable tissue, digestive system, cardiovascular system, respiratory system and renal system, the existing interfaces between them and the flows of matter, energy and information, as well as gradients and active mechanisms involved. D) To understand the physicochemical laws that relate organic variables, its control and regulation mechanisms of excitable tissue, digestive system, cardiovascular system, respiratory system and renal system as well as to learn to interpret physiological variables related graphs and flowcharts. E) To study the physiological adaptations allowing to cope the internal and external environmental changes and to compare the function of physiological systems (excitable tissue, digestive system, cardiovascular system, respiratory system and renal system) in different animal species of veterinary interest. F) To use and evaluate the discipline information sources in relation to digestive, excitable tissue, blood, cardiovascular, respiratory and renal organic systems. LEARNING OUTCOMES CE-FIS1. To know how the animal organism works, understanding it not as a set of isolated organs and systems but as a coordinated whole depending on numerous regulatory mechanisms. CE-FIS2. To know the language of Physiology, including the vocabulary in relation to the internal environment, excitable tissue, digestive system, cardiovascular system, respiratory system and renal system. CE-FIS3. To know the most important concepts, principles and general laws of Physiology of the internal environment, excitable tissue, digestive system,

					cardiovascular system, respiratory system and renal system. CE-FIS4. To know some experimental techniques and methods for the design and analysis of experiments in Physiology of the internal environment, excitable tissue, digestive system, cardiovascular system, respiratory system and renal system. CE-FIS5. To know the interrelationships of Physiology and other disciplines. CE-FIS6. To develop the critical thinking and a scientific and open attitude.

GENETICS					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803793	6	1:2	Compulsory	Lectures: 42.50 Seminars/Tutorials: 17.50 Laboratory: 12.50 Exams: 2.50 Supervised self-learning: 0	OBJECTIVES To reach an appropriate level of knowledge of the genetic bases of transmission of traits as well as of the function and expression of the inherited material. LEARNING OUTCOMES CE-G1: Knowledge of the basic principles of transmission of the genes controlling qualitative and quantitative traits. CE-G2: Knowledge of the structure of genetic populations. CE-G3: Knowledge of the structure and organization of hereditary material. CE-G4: Knowledge of the expression and regulation mechanisms of genes. CE-G5: Acquisition of specific knowledge of genetics applied to clinics and production. CE-G6: Acquisition of specific knowledge of the genes that control the development, apoptosis and cellular aging. CE-G7: Acquisition of the basics of biotechnology and its applications. CE-G8: Resolution of practical cases related to theoretical knowledge. CE-G9: To practice with laboratory animals to test some theoretical genetic phenomena.

VETERINARY HISTOLOGY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803794	7	1:1-2	Compulsory	Lectures: 43.75 Seminars/Tutorials: 10 Laboratory: 26.25 Exams: 7.50 Supervised self-learning: 0	OBJECTIVES To study the structural and ultrastructural characteristics of tissues and organs from different animal species. This knowledge will serve as a basis for learning of other subjects related to animal pathology. LEARNING OUTCOMES CE-HV1. To know the normal structure and ultra-structure of the cell, tissues and organs of different animal species of domestic and zootechnic interest. CE-HV2. To relate the normal structure and ultra-structure of cells, tissues and organs with its function. CE-HV3. To know and adequately use the histological terminology. CE-HV4. To know the instruments and the specific methodology that is used in the study of Histology. CE-HV5. To manage and adequately use the light microscope to study histological slides. CE-HV6. To interpret and identify the cells, tissues and organs of different animal species in histological slides.

CHEMISTRY, ZOOLOGY AND BOTANY APPLIED TO VETERINARY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803791	6	1:1	Compulsory	Lectures: 37.50 Seminars/Tutorials: 10 Laboratory: 22.50 Exams: 5 Supervised self-learning: 0	OBJECTIVES To acquire knowledge of the Zoology and Botany of the groups of veterinary interest, studying the general characteristics, as well as the systematics, of the genera and species of interest. Knowledge of the chemical basis of biological processes, identifying and differentiating the key biomolecules in the structure and metabolism of the living organisms and understanding their properties and functions. The students should also apply theoretical knowledge to solve exercises and questions. LEARNING OUTCOMES CE-QZB1. To know the chemical bases of the biological processes. CE-QZB2. To identify and differentiate the fundamental biomolecules in the structure and metabolism of living organisms and know their properties and functions. CE-QZB3. To apply the theoretical knowledge to solving problems. CE-QZB4. Generic knowledge of Zoology and Botany of the veterinary interest groups, their behavior and their identification bases. CE-QZB5. Knowledge of the animal and plant systematics of the main groups of veterinary interest. CE-QZB6. Structure and function of plants and animals of veterinary interest. CE-QZB7. Acquisition of skill in performing zotomies and management of biological and technical material.

GENERAL PATHOLOGY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803806	6	2:2	Compulsory	Lectures: 61.50 Seminars/Tutorials: 16.50 Laboratory: 9 Exams: 3 Supervised self-learning: 0	OBJECTIVES To know the different lesions that can be present in different animal species. To know the pathogenic mechanisms of lesions in Veterinary Medicine. LEARNING OUTCOMES EC-APG1 To know the concept of lesion and to analyze its characteristics from a general point of view, regardless of its location. EC-APG2 To know the different categories of lesions and morphological characteristics useful for identification and differentiation. EC-APG3 To know, to understand and to analyze the pathogenic mechanisms during the development of different lesions. EC-APG4 To correlate lesions with diseases. EC-APG5 To know how to make an appropriate sampling and sample remission. EC-APG6 To perform a complete histologic description, using appropriate technical language. CE-APG7 To know the sources of General Pathology, so that students have the opportunity to compare acquired knowledge and thus to create a critical attitude.

ANATOMY AND EMBRYOLOGY II					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803800	8	2:1-2	Compulsory	Lectures: 46 Seminars/Tutorials: 9.25 Laboratory: 36 Exams: 8.75 Supervised self-learning: 0	OBJECTIVES To acquire basic knowledge of anatomy and embryology of domestic species of veterinary interest, learning the anatomical differences between species; apply anatomical knowledge to clinical production and animal health; acquire manual skills by performing dissections regulated. LEARNING OUTCOMES CE-AN1. To know and apply the anatomical and embryological language to the different structures of domestic animals. CE-AN2. To identify the different bones from the domestic animal skeleton. CE-AN3. To acquire the skills for the dissection of the different structures of the locomotive system and body cavities. CE-AN4. To know the different systems of the organism of the domestic animals and their organs. CE-AN5. To apply the achieved knowledge in the Topographic, Comparative and Applied Anatomy of the different domestic species. CE-AN6. To know the embryological development of the different body systems of domestic animals and the congenital malformation that may occur during that development.

ANIMAL PRODUCTION BASIS II:
AGRONOMY, ECONOMICS AND VETERINARY BUSINESS MANAGEMENT

Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803803	6	2:1	Compulsory	Lectures: 29 Seminars/Tutorials: 17 Laboratory: 8 Exams: 2 Supervised self-learning: 4	OBJECTIVES To give the basic knowledge in the production and characteristics of plant materials used in animal feeding. To acquire the basic knowledge in agricultural markets, and the applied knowledge in technical, economic, financial and commercial management of agrarian and veterinarian business. LEARNING OUTCOMES CE-BPAII1. To obtain basic knowledge about plant foods consumed by animals of veterinary interest, with particular emphasis on the production, chemical-bromatological composition and factors limiting its use, but without forgetting its botanical and ecological characteristics, main varieties, geographical distribution and cultivation techniques. To get familiar with the specific terms of this subject. CE-BPAII2. To acquire skills on the application of specific analytical techniques for the evaluation of the chemical composition of vegetable raw materials and on the interpretation and analysis of results. CE-BPAII3. To achieve basic skills for identification of seeds and fruits of livestock interest and for microscopic identification of flours of plant origin used in animal feed. CE-BPAII4. To know the market elements and the mechanism of price formation. CE-BPAII5. To determine the characteristics of the agricultural markets. CE-BPAII6. To know how to calculate production costs. CE-BPAII7. To analyze and evaluate the feasibility of investment projects. CE-BPAII8. To know the instruments of marketing mix.

ANIMAL PHYSIOLOGY II					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803801	6	2:1	Compulsory	Lectures: 47 Seminars/Tutorials: 13.75 Laboratory: 12 Exams: 2.25 Supervised self-learning: 0	OBJECTIVES - The knowledge of present subject is absolutely necessary for the comprehension of the body functions to understand subsequent function alterations that is the inherent goal to all objective biomedical training. The specific general objectives are the following: - To integrate knowledge on organisms' structure and function of reproductive, endocrine and nervous systems as well as their physiological processes that occurs in them, in relation to the external and internal environment. - To study the different physiological systems (reproductive, endocrine and nervous) in relation to the organs composing them, its interrelationships, the organic variables they control, the physiological mechanisms (physical and chemical) acting in them and the regulation systems they depend on for its stability. - To recognize compartments involved in a physiological process related to the reproductive, endocrine and nervous systems, the existing interfaces between them and the flows of matter, energy and information, as well as gradients and active mechanisms involved. - To understand the physicochemical laws that relate organic variables, its control and regulation mechanisms. To learn to interpret physiological variables related graphs and flowcharts of the reproductive, endocrine and nervous systems. - To study the physiological adaptations allowing to cope to internal and external environmental changes and to compare the physiological systems function by integrated systems in different animal species of veterinary interest. - To use and evaluate information sources of the discipline relative to the reproductive, endocrine and nervous systems. LEARNING OUTCOMES - CE-FIS1. To know how the animal organism works, understanding it not as a set of isolated organs and systems but as a coordinated whole depending on numerous regulatory mechanisms (endocrine and nervous). - CE-FIS2. To know the language of Physiology, including the vocabulary related to endocrine, reproductive and nervous systems. - CE-FIS3. To know the most important concepts, principles and general laws

					of Physiology of the endocrine, reproductive and nervous systems. - CE-FIS4. To know some experimental techniques and methods for the design and analysis of experiments in Physiology of the endocrine, reproductive and nervous systems. - CE-FIS5. To know the interrelationships of the Physiology of the endocrine, reproductive and nervous systems with other disciplines. - CE-FIS6. To develop the critical thinking and scientific openness and integrating all the knowledge achieved.

ANIMAL BREEDING IN SPECIES OF VETERINARY INTEREST					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803804	6	2:1	Compulsory	Lectures: 45 Seminars/Tutorials: 3 Laboratory: 10 Exams: 2 Supervised self-learning: 0	OBJECTIVES The student should be able to develop a breeding program by integrating all sources of available information using quantitative genetics tools, with the aim on one hand of exploiting genetic variability within and among populations and for the conservation of the population genetic diversity on the other hand. LEARNING OUTCOMES CE-MG1. To analyze and to quantify the components of the Phenotype and Phenotypic Variance. CE-MG2. To develop breeding objectives and selection criteria. CE-MG3. To design models for genetic evaluation. CE-MG6. To design strategies for mapping genes of interest in breeding programs. CE-MG7. To quantify individual inbreeding and kinship and of animal populations. CE-MG8. To design programs for conservation of animal biodiversity.

MICROBIOLOGY AND IMMUNOLOGY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803802	11	2:1-2	Compulsory	Lectures: 87.50 Seminars/Tutorials: 5 Laboratory: 33.75 Exams: 2.50 Supervised self-learning: 8.75	OBJECTIVES To acquire basic knowledge of Immunology, Bacteriology, Mycology and Virology, as well as of the main characteristics of the most relevant microorganisms in Veterinary Medicine. To introduce to the student the basic principles of the immune response, its significance and practical application in Veterinary Medicine, including the main immunological diagnostic techniques, the principles of regulation of the immune system, the response to different pathogens and immunization systems. To provide an overview of microbial diversity and the morphological structures of bacteria, fungi and virus. To gain a better understanding of the methods for the study and control of bacteria, fungi and virus, their pathogenic mechanisms, and how these determine their structures and life cycles. The students should become familiarized with the principles of microbial taxonomy and the main characteristics of the microorganisms of veterinary importance, associating them with the diseases they cause. The practical syllabus aims to provide knowledge and skills for executing and interpreting different microbiological and immunological techniques, focusing in their applications in the veterinary field, and to analyze, interpret and solve of a variety of practical cases. LEARNING OUTCOMES CE-MI1. The acquisition of basic knowledge of bacteriology, mycology and virology, as well as the main characteristics of the most important microorganisms in veterinary medicine, and industrial application, and its importance in food and the environment. CE-MI2. To know the great microbial diversity and morphological structures of bacteria, fungi and viruses, their biological implications and how to study them. CE-MI3. To know the methods of study and control of bacteria, fungi and viruses. CE-MI4. To know the mechanisms of pathogenicity of bacteria, fungi and viruses and how they relate to their structures and life cycle. CE-MI5. To get familiar with the basic outlines of microbial taxonomy. CE-MI6. To know the main characteristics of the most important microorganisms in veterinary, relating them with the causing pathogenic entities. CE-MI7. To understand the basic principles of the immune response, its importance and its variation in the different animal species. CE-MI8. To understand the basics of immune system regulation. To understand and to identify the different alterations of the immune response and its consequences.

					CE-MI9. To go in depth in the knowledge of the immune response against different pathogens and tumors as well as in immunization systems and immunotherapy. CE-MI10. To know, to perform and to interpret the main immunological techniques and their applications in veterinary medicine.

PARASITOLOGY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803808	5	2:1	Compulsory	Lectures: 33 Seminars/Tutorials: 10.50 Laboratory: 24 Exams: 4.50 Supervised self-learning: 3	OBJECTIVES Knowledge on parasitism as biological association, parasite-host-environment relationship and morphology, biology, physiology and ecology of parasite species infecting companion and domestic animals and others, and zoonotic parasites. LEARNING OUTCOMES CE-P1. To apply the biological and ecological language to parasitism and parasites. CE-P2. To identify the different biological parasitism and the related biological associations, the parasite-host relationship including the immune response of the host, the types of parasites and hosts, the importance of parasitism in veterinary and public health. CE-P3. To understand the morphology of the different phases of the biological cycles of parasitic species of veterinary interest and be able to identify them. CE-P4. To relate knowledge about morphology, physiology and biological cycles of parasites of veterinary interest with the parasitic disease.

NOSOLOGY AND PHYSIOPATHOLOGY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803805	6	2:1	Compulsory	Lectures: 37.50 Seminars/Tutorials: 15.45 Laboratory: 30 Exams: 4.95 Supervised self-learning: 2.10	OBJECTIVES To understand the concepts and terminology of Nosology and Physiopathology and the importance within the Degree in Veterinary and its relationship with other disciplines. To understand and to interpret the changes in the shape, structure and function of the animal organism. To know the different categories of injuries and morphological characters used for its identification and differentiation. To understand and correctly define the concept of injury and analyze their characteristics from a general point of view, regardless of their location. To know, to understand and to analyze the pathogenic mechanisms taking place in the development of general injuries. To understand the relationship between etiology, pathogenesis and injury. To perform properly, and using appropriate technical language to the disciplinary field, complete and orderly macroscopic and histological descriptions and so that the injury can be identified through them. To know the basic technique of necropsy. To be able to make a correct sampling. To master the terminology of Pathology and handle with ease bibliographical sources. LEARNING OUTCOMES CE-PG1. To know and to understand the current general concept of health and disease. CE-PG2. To know the generalities of causes, mechanisms and clinical signs, and the progression of disease. CE-PG3. To know the generalities of grading a disease based on the clinical judgement and its sources, types and procedures. CE-PG4. To describe the causes of the functional disorders of organs and systems and to explain their mechanisms of pathogenicity. CE-PG5. To describe and to explain the mechanisms of response and compensation of the functional disorders of organs and systems as well as the consequences of these functional disorders and their clinical manifestations. CE-PG6. To know the different syndromes, common in Veterinary Medicine. CE-PG7. To identify the animal species which have a greater incidence of suffering from the different functional disorders of organs and systems as well as the different syndromes. CE-PG8. To apply and to correlate the knowledge of physiopathology with the clinical findings in clinical cases. CE-PG9. To correctly handle biological specimens as well as to conduct and to

					interpret a complete blood count (CBC), basic clinical chemistry profile and urinalysis.

CLINICAL PROPAEDEUTICS					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803807	6	2:1	Compulsory	Lectures: 31.50 Seminars/Tutorials: 9 Laboratory: 45 Exams: 4.50 Supervised self-learning: 0	OBJECTIVES To introduce the students to the use of medical terminology that will be needed to communicate effectively with their colleagues in clinical practice. To provide students with basic knowledge and skills in performing a complete medical history and in handling and examining domestic animals, employing general and complementary methods. To acquire basic knowledge to be able to obtain a complete medical history and to recognize clinical signs in diseased animals that can provide valuable information for clinical purposes. LEARNING OUTCOMES CE-PC1. To use proper medical terminology in the field of Clinical Propaedeutics. CE-PC2. To know and to apply the concepts of Clinical Propaedeutics, Semiology and Semiotics. CE-PC3. To perform successfully an anamnesis in different animal species. CE-PC4. To know the normal behavior of the different animal species and their veterinary approach, both healthy and diseased animals, including restraint methods, handling and other measures of passive protection. CE-PC5. To perform a proper examination, systematic and orderly, using both physical and complementary methods. CE-PC6. To know sampling techniques in animal species. CE-PC7. To interpret correctly clinical data obtained during the anamnesis and physical and complementary examination, with diagnostic purposes. CE-PC8. To write a clinical history properly, after ordering the data obtained from the anamnesis, physical and complementary examination.

BREEDING AND ANIMAL SCIENCE I					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803812	8	3:1-2	Compulsory	Lectures: 50 Seminars/Tutorials: 4 Laboratory: 22 Exams: 4 Supervised self-learning: 0	OBJECTIVES To provide students with the required knowledge and skills for organizing and developing animal husbandry and productive animals exploitation, using suitable techniques and appropriate hygiene for every species. Knowledge of alternatives for each animal species and type of animal product desired and ability to apply previous knowledge considering data and knowledge of ethology , ethnology , genetics and physiology, in order to achieve maximum efficiency in animal farms, while safeguarding animal welfare and environmental preservation. Students will acquire capacity for improving various production systems, taking in account the necessary animal hygiene and health preservation, as well as applying rules and laws that will be known through this and other disciplines. Knowledge and application of fundamental concepts in order to optimize production factors management affecting profitability and sustainability of animal production. Students will be capable of applying analysis systems for product quality in origin regarding animal products. Students will be trained in genetic applications and interpretation, especially about genes responsible for hereditary productive importance traits or pathologies as well as in specific genetic improvement programs. Students will acquire capacity for specific ration development and feeding management of pigs, poultry, rabbits and dogs, as well as for several species of interest for aquaculture. LEARNING OUTCOMES CE-CPAI1. Election of the production systems, techniques and methods of animal production appropriate to each species and production goal, in order to achieve the maximum efficiency and effectiveness, respecting the animal welfare and the environment, in pigs, poultry, rabbits, aquaculture and other species of interest, with particular reference to sustainable production systems. CE-CPAI2. Practical planning of the production of meat, eggs, products from aquaculture and other kind of foods derived from different animal species, as well as other products not intended for human consumption, applying management and hygiene techniques and selecting suitable housing systems to ensure the health and welfare in pigs, poultry, rabbits, dogs and aquatic species. CE-CPAI3. Knowledge, choice and application of technological processes, strategies and reproductive procedures applied to the production of pigs, poultry, rabbits, dogs and aquatic species. Planning of replacement based on production goals. CE-CPAI4. To establish and to implement specific protocols for newborn care and

					feeding system in pigs, rabbits and dogs, as well as the animal management during the breeding or feeding change to provide health and welfare in pigs, poultry, rabbits, dogs and aquatic species. CE-CPAI5. Knowledge of design and dimensioning of housing and adequate facilities for each species (pigs, poultry, rabbits, dogs and aquatic species) and type of production, in accordance with the regulations in Animal Protection. CE-CPAI6. Knowledge of systems of quality evaluation of animal products in origin, as well as traceability systems and control in animal production for producing quality products in pigs, poultry, rabbits and aquatic species. CE-CPAI7. Knowledge of methods of breeding, rearing, management and housing of the main species of pets. CE-CPAI8. Ration formulation and feeding of pigs, poultry, rabbits, aquaculture and other species of interest. CE-CPAI9. To use molecular information in breeding programs. CE-CPAI10. Genetic advice.

BREEDING AND ANIMAL SCIENCE II					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803813	7	3:1-2	Compulsory	Lectures: 45 Seminars/Tutorials: 4 Laboratory: 17 Exams: 4 Supervised self-learning: 0	OBJECTIVES To provide students with the required knowledge and skills for organizing and developing animal husbandry and productive animals exploitation, using suitable techniques and appropriate hygiene for every species. Knowledge of alternatives for each animal species and type of animal product desired and ability to apply previous knowledge considering data and knowledge of ethology , ethnology , genetics and physiology, in order to achieve maximum efficiency in animal farms, while safeguarding animal welfare and environmental preservation. Students will acquire capacity for improving various production systems, taking in account the necessary animal hygiene and health preservation, as well as applying rules and laws that will be known through this and other disciplines. Knowledge and application of fundamental concepts in order to optimize production factors management affecting profitability and sustainability of animal production. Students will be capable of applying analysis systems for product quality in origin regarding animal products. Students will be trained in genetic applications and interpretation, especially about genes responsible for hereditary productive importance traits or pathologies as well as in specific genetic improvement programs. Students will acquire capacity for specific ration development and feeding management of cattle, sheep, goats and hunting species. LEARNING OUTCOMES CE-CPAII1. Choice of production systems, techniques and methods of animal production appropriate to each species and production target in order to achieve maximum efficiency and effectiveness, respecting the animal welfare and the environment, in cattle, sheep, goats and hunting species, with special reference to sustainable production systems. CE-CPAII2. Practical planning of production of meat, milk and other foods that are derived from different species animal, as well as other products not intended for human consumption, applying management techniques and hygiene and selecting systems suitable housing for ensure the health and welfare of animals in cattle, sheep, goats and hunting species. CE-CPAII3. Knowledge, choice and application of technological processes, strategies and reproductive procedures applied to the production of cattle, sheep, goats and game species. Planning of replacement based on production goals.

					CE-CPAII4. To establish and to implement specific protocols for newborn care and feeding system, as well as the animal management during the weaning phase or feeding change to provide health and welfare in cattle, sheep, goats and hunting species. CE-CPAII5. To know the aspects and factors that determine a correct milking system in a hygienic manner, at all times promoting the health of the female. CE-CPAII6. Knowledge of design and dimensioning of housing and adequate facilities according to the type of production for cattle, sheep, goats and hunting species, in line with the regulations Animal Protection. CE-CPAII7. Knowledge of systems of quality evaluation of animal products in origin, as well as traceability systems and control in animal production for producing quality products in cattle, sheep, goats and game species. CE-CPAII8. Ration formulation and feeding of cattle, sheep, goats and hunting species. CE-CPAII9. Use of genetic improvement programs. CE-CPAII10. Design of geneflow schemes.

CLINICAL PHARMACOLOGY AND PHARMACOTHERAPEUTICS					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803815	4	3:2	Compulsory	Lectures: 19.50 Seminars/Tutorials: 15 Laboratory: 13.50 Exams: 1.50 Supervised self-learning: 10.50	OBJECTIVES To get knowledge of the main sources of drug information. To get knowledge of the factors determining the variability of drug's effects and the appearance of adverse reactions. To get knowledge of the main applications of clinical pharmacokinetics. To provide training on how to use the best available scientific evidence to select a pharmacological treatment for common veterinary diseases. To provide training on the adequate use of veterinary drugs to enhance animal productions while assuring consumer's health and keeping control of the environmental consequences. To get knowledge of the methodological basis of clinical trials and of the procedures for monitoring drug's effects during the R+D process and actual clinical use. LEARNING OUTCOMES CE-FCF1. To know the methodological bases of the clinical trial and epidemiological studies to evaluate the use, effectiveness and safety of drug use in animals. To know the social and health implications of drug prescription and commitments of information and confidentiality. CE-FCF2. To know the clinical drug response, its monitoring and the importance of adverse reactions as a public health problem, the situations that favor its appearance, to learn how to avoid, to recognize and to treat them; to know the importance of epidemiological surveillance and the collaboration with the spontaneous reporting system. CE-FCF3. To know the general bases of the pharmacological treatments for application in animals, the factors determining interindividual and interspecific variability in drug response and the problems associated with drug prescription in animal populations. CE-FCF4. To know the therapeutic protocols of the main syndromes affecting different domestic animals species. To know the implementation of the different efficiency indices, the PK / PD concept, and the different procedures for extrapolating doses between species and the prescription cascade system when therapeutic void. CE-FCF5. To know the fundamentals of the rational use of drugs in veterinary preventive medicine, in medical and surgical treatments for animal application and for the improvement of livestock production.

PHARMACOLOGY AND PHARMACY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803809	6	3:1	Compulsory	Lectures: 37.50 Seminars/Tutorials: 8.13 Laboratory: 12.50 Exams: 5.63 Supervised self-learning: 11.25	OBJECTIVES To learn the basics of Pharmacology and Pharmacy: (I) basic terminology in Pharmacology; (II) general mechanisms of drug's action; (III) pharmacokinetic processes; (IV) the pharmacokinetic and pharmacodynamic characteristics of the main classes of drugs used in veterinary medicine. To interpret the results of pharmacological experiments. To acquire strategies in handling of reliable sources of information related to Pharmacology. LEARNING OUTCOMES CE-FF1. To know the structure, the formulations, routes of administration, mechanism of action, and effects of drugs for veterinary use and the impact of their use on animals, the environment and public health. CE-FF2. To know how drugs are absorbed, distributed, metabolized and excreted in the different target species and the concepts of bioavailability and bioequivalence. To know the pharmacodynamic and pharmacokinetic characteristics of the different classes of drugs and the general principles of the benefit-risk assessment. CE-FF3. To perform basic analytical and instrumental techniques for the formulation, detection and assessment of the effects of veterinary drugs. CE-FF4. To know the legal framework of the use of veterinary drugs.

VETERINARY ANIMAL NUTRITION					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803811	4	3:1	Compulsory	Lectures: 40 Seminars/Tutorials: 13 Laboratory: 4 Exams: 3 Supervised self-learning: 0	OBJECTIVES To study the nutritive needs of the animals regarding digestive and metabolic process. To study of raw materials and micro ingredients in animal feeding as well as their nutritive value. To establish the principles of the formulation. LEARNING OUTCOMES CE-NAV1. To know the biological, chemical and physical processes of importance to the understanding of Food and Animal Nutrition. CE-NAV2. To know the most important working methods and analytical techniques in Food and Animal Nutrition. CE-NAV3. To know the function of nutrients and energy and the bases of the nutritional assessment of major importance in nutrition of monogastric and ruminants animals. CE-NAV4. To know the factors that influence feed intake and the mechanisms of action that can be used to modify the voluntary feed intake. CE-NAV5. To know the interrelationships between the different functions and productions and thereafter, quantitatively estimate the nutritional needs of domestic animals in different environments and production situations. CE-NAV6. To know the biological constraints that limit the digestive or metabolic use of food or nutrients that can lead to nutritional disorders. To know the prevention strategies through food. To know and appreciate the importance of animal nutrition in animal welfare and longevity. CE-NAV7. To know the main raw materials and additives of interest in animal feed and the limitations of their use in ration formulation. To develop critical choice and substitution of one food for another, or combination of others. To know the legal aspects of the use of raw materials and additives in animal feeding. CE-NAV8. To know the relationship between food received by the animal and the composition and quality attributes of the main livestock production. CE-NAV9. To know the technological processes of interest applied in the manufacture of compound feed, as well as the legal aspects of particular relevance concerning the manufacture of compound feed. CE-NAV10. To develop the ability to implement the basic knowledge, that is, to know how to meet the animal nutritional needs by designing a feeding program and each particular food, including ration formulation for different species and productions, choosing in each case the most appropriate and taking into account all technical and economic aspects in relation with the animal.

OBSTETRICS AND REPRODUCTION I					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803816	7	3:2	Compulsory	Lectures: 69 Seminars/Tutorials: 25.50 Laboratory: 9 Exams: 1.50 Supervised self-learning: 0	OBJECTIVES To understand the basis of reproduction and its alterations at the molecular, cellular and physiological levels. To understand the basis and acquire the foundation skills necessary to perform and interpret the different diagnostic methods used in reproductive medicine. Acquire the comprehensive knowledge about the different treatments: indications, regimens, and dosing frequency on the different animal species (livestock and companion animals). LEARNING OUTCOMES CE-OBRPI1. To apply the basic concepts of veterinary science to understand the mechanisms that regulate the reproductive function. CE-OBRPI2. To study the influence of the internal and external environments on fertility and fecundity. CE-OBRPI3. To know, to understand and to manage the factors that influence reproductive behavior of males and females. CE-OBRPI4. To apply the basic knowledge of reproduction to understand the etiology of disorders of the reproductive function, to recognize, to treat and / or to prevent female reproductive pathology in domestic animals. CE-OBRPI5. To apply the basic knowledge of reproduction to understand, to recognize, to treat and / or to prevent male reproductive pathology in domestic animals. CE-OBRPI6. To know, to understand the indications and to apply therapies for the infertility treatment.

RADIOLOGY AND DIAGNOSTIC IMAGING					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
806817	6	3:2	Compulsory	Lectures: 67.50 Seminars/Tutorials: 19.50 Laboratory: 0 Exams: 3 Supervised self-learning: 0	OBJECTIVES To know the basic physics of diagnostic radiology, ultrasound, computed tomography (CT) and magnetic resonance imaging (MRI). To know the basics of radiation protection and related law. To know the radiographic, ultrasound, CT and MRI anatomy of small and large animals. To know the basics of diagnostic imaging interpretation and diagnosis in small and large animals. LEARNING OUTCOMES CE-R1. Knowledge of the physical bases of the different techniques of imaging used in the veterinary clinical practice. CE-R2. Knowledge of the current legislation regarding material for radiation protection and management of the diagnostic radiology rooms. CE-R3. Knowledge of the radiographic and ultrasonographic techniques for medical imaging. CE-R4. Knowledge of the bases of interpretation of medical images. Radiographic and ultrasonographic diagnosis of the main diseases in small and large animals. CE-R5. Knowledge of the clinical indications of diagnostic techniques for advanced imaging (computed tomography, magnetic resonance and positron emission tomography). CE-R6. To apply theoretical knowledge to solve clinical cases.

FOOD TECHNOLOGY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803814	10	3:1-2	Compulsory	Lectures: 60 Seminars/Tutorials: 11 Laboratory: 20 Exams: 4 Supervised self-learning: 5	OBJECTIVES This subject aims to provide students with specific knowledge to understand the chemical, biochemical and microbiological aspects of food for human consumption, especially food of animal origin. In addition, in this introduction to the world of food, the student will be trained in the microbiological and biochemical basis of food spoilage, the unit operations and equipment involved in food processing, as well as in the changes in the technological, nutritional and sensory properties of food occurring during its journey through the food chain, from farm to fork. In this regard, this subject aims to introduce students to the theories and practices of food science, especially those related to food of animal origin, to acquire sufficient knowledge and appropriate training needed to enable them to develop professional skills for the food industry, public administration or other food-related entities. LEARNING OUTCOMES CE-TA1. To acquire training for the professional development in the food industry and scientific and academic institutions related to production, storage and processing of food. CE-TA2. To assess the effects of the conservation and food processing in the physicochemical, nutritional, functional, technological, hygienic and sensory properties of food to choose judiciously the most suitable processes of conservation according with the changes that must be avoided in feed. CE-TA3. To analyze the storage, transport and distribution systems of food. CE-TA4. To understand the principles and to identify the factors to optimize conservation and food processing procedures aimed to extend life, ensure safety, retain nutrients and minimally modify their properties. CE-TA6. To know the technological properties of milk, meat, fish, eggs and honey and the current principles and techniques of production, processing, preservation, storage, distribution and parameters control in food processing of animal origin.

TOXICOLOGY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803810	6	3:1	Compulsory	Lectures: 37.50 Seminars/Tutorials: 18.75 Laboratory: 12.50 Exams: 6.25 Supervised self-learning: 0	OBJECTIVES Toxicology is the study of the harmful actions of chemicals on biologic tissue. Therefore it requires an understanding of chemical reactions and interactions and of biologic mechanisms. Toxicology course has been organized in two sections to facilitate the knowledge to veterinarian students. The first part describes the elements of method and approach that identify toxicology (principles of toxicology, dose response, toxic kinetics, toxicology testing, animal bioassays, mechanisms of toxicity, toxication versus detoxication; this part constitute the basis to the risk analysis). The second part corresponds with Clinical Toxicology in which the toxic agents are grouped by chemical or use characteristics; for all compounds will describe the pathophysiology, clinical presentation, diagnosis and treatment of the intoxication (1) Contaminants (air pollution, ecotoxicology, toxic effects of radiation and radioactive materials, toxic effects of metals, toxic effects of solvents and vapors); (2) Drugs (toxic effects of antimicrobials, antiparasitic, anti-inflammatory agents); (3) Pesticides (toxic effects of insecticides organochlorine compounds, anticholinesterase agents, pyrethroids, herbicides, fungicides, rodenticides); (4) Food Toxicology (toxic effects of plants, drugs used in food-producing animals, micotoxins, bacterial toxins, marine biotoxins; (5) Animal toxins (toxic effects of terrestrial animal venoms and poisons). LEARNING OUTCOMES CE-T1. To know and to understand the fundamentals of Toxicology. CE-T2. To know the bases of the general etiology of the most common poisonings and the treatment including antidotes. CE-T3. To know the nature, the mechanisms of action and effects of natural and synthetic toxicants, as well as the necessary resources in case of poisoning in animals, as well as their environmental and public health impact. CE-T4. To know the basic toxicity biomarkers. CE-T5. To evaluate the toxicological effects of natural and synthetic substances and to design and implement the appropriate testing and analysis. CE-T6. To perform the clinical history and examination of animals oriented to the pathology by poisoning, including the necropsy if that is the case. CE-T7. To collect and to submit properly samples for toxicological analysis with its corresponding report. CE-T8. To know and to perform the basic analytical techniques for toxicological research, to interpret the results and to issue the report of a toxicological analysis.

					CE-T9. To know how to design the protocols for toxicity testing in experimental animals to ensure the safety of short- and long-term of natural and synthetic substances. CE-T10. To know how to interpret the results of in vivo and in vitro toxicity in the evaluation of the safety of different types of substances (drugs, biocides, pesticides and other agrochemical products). CE-T11. To know how to determine the safe exposure range and the exposure level of natural and synthetic substances that can be dangerous for animal health, for man and the environment. CE-T12. To know how to do an expert report on security of natural and synthetic substances (drugs, biocides, pesticides and other agricultural chemicals, pollutants, mycotoxins, bacterial and marine toxins). CE-T13. To know and to use electronic information sources in toxicology.

SPECIAL VETERINARY PATHOLOGY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803818	8	4:1-2	Compulsory	Lectures: 54.90 Seminars/Tutorials: 15 Laboratory: 36.60 Exams: 3 Supervised self-learning: 10.50	OBJECTIVES To know lesions, their causes and consequences in organs and systems from different animal species. LEARNING OUTCOMES CE-APE1. To recognize, to describe, to interpret and to diagnose gross and microscopic lesions that appear in the various anatomical systems of domestic animals during the course of a disease, and being able to classify them within a particular type. CE-APE2. To associate the lesions or lesion types with particular diseases or syndromes and with particular pathogenic mechanisms. CE-APE3. To master the scientific terminology used in the course, as well as references and the new technologies used. CE-APE4. To perform a complete, systematic and organized necropsy. Assessing the clinical history of the animal, relate it to the lesions and formulate a gross diagnosis of the cause of death and/or the disease process. CE-APE5. To conduct, during the course of a necropsy, the appropriate sampling for histopathological analysis and for ancillary tests. CE-APE6. To write a necropsy report, with a description and an accurate interpretation of the lesions. To formulate gross presumptive diagnoses and/or differential diagnoses. CE-APE7. To describe, to recognize and to interpret histopathology images and relate them to the corresponding gross lesions. To formulate final diagnoses of the various disease entities.

GENERAL SURGERY AND ANAESTHESIA					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803821	6	4:2	Compulsory	Lectures: 54 Seminars/Tutorials: 4.50 Laboratory: 19.50 Exams: 3 Supervised self-learning: 9	OBJECTIVES To know the characteristics of different techniques used in veterinary anesthesia and analgesia, including the drugs and the equipment used for that purpose. To know the different techniques used in veterinary surgery, their indications and contraindications in different animal species. LEARNING OUTCOMES CE-CGA1. To understand and analyze the background of veterinary anesthesia and analgesia. CE-CGA2. To analyze the sanitary status of the animal, including the presence of concurrent diseases, anticipating possible complications that could arise from the use of anesthesia and analgesia techniques. CE-CGA3. To understand and analyze the different drugs and anesthesia-analgesia techniques used in animals. Analyze and select the most appropriate anesthetic and analgesic technique depending on the procedure, diagnostic or therapeutic, and health of the animal. CE-CGA4. To know and understand the different anesthesia and pain management equipment and monitoring. CE-CGA5. To assess the patient's condition (plane of anesthesia, analgesia, cardiovascular and respiratory systems) based on monitored variables. To know, understand and apply the anesthetic support measures and detect, analyze and resolve complications that occur during the conduct of anesthesia and analgesia techniques. CE-CGA6. To analyze inter-species differences in the application of techniques of anesthesia and analgesia. CE-CGA7. To know the different facilities, equipment, sutures, sterilization systems, and surgical instruments for different animal species. CE-CGA8. To know and practice the different techniques of suture, hemostasis and drainage. CE-CGA9. To analyze and understand the concepts of muscle, joint, bone and soft tissue surgery. CE-CGA10. To know the most common techniques in equine podiatry.

INFECTIOUS DISEASES					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803822	12	4:1-2	Compulsory	Lectures: 120 Seminars/Tutorials: 21 Laboratory: 30 Exams: 3 Supervised self-learning: 6	OBJECTIVES Acquisition of the skills needed to identify the infectious diseases of interest in each animal species. Resolution, clinical management and treatment of infectious diseases of interest in different animal species. Acquisition of knowledge on the etiology, pathogenesis and epidemiology of infectious diseases to establish the most appropriate measures to control and prevent them. Knowledge of the legal framework for monitoring and controlling infectious diseases. Acquisition of solid and appropriate training to contribute in the improvement of animal health. Acquisition of the ability to face new challenges and to solve scientific and technical problems. Acquisition of the ability to analyse bibliography on various infectious diseases. LEARNING OUTCOMES CE-EI1. To identify the different infectious diseases, individual and collective, in different animals species. CE-EI2. To solve, to manage and to treat clinically infectious diseases of different animal species on individuals and groups. CE-EI3. To acquire the applied knowledge of the etiology and epidemiology of infectious diseases to adopt suitable measures to combat, to control and to prevent of them, with special emphasis on zoonoses and notifiable diseases. CE-EI4. To apply the basic knowledge of the immune response and the various pathogens and pathogenic mechanisms, differential diagnosis, treatment and control of infectious diseases of various animal species. CE-EI5. To implement veterinary medicines in Infectious Diseases, including the impact of their use on animals, the environment and public health. CE-EI6. To acquire the knowledge of the essential elements of the legal framework and legal responsibility for the surveillance and control of infectious diseases, including ethical and deontological principles. CE-EI7. To conduct searches and bibliographic analysis of the various Infectious Diseases, for the development of epidemiological studies and therapeutic and preventive programs according to the standards of animal protection, animal health and public health.

PARASITIC DISEASES					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803823	9	4:1	Compulsory	Lectures: 67.50 Seminars/Tutorials: 24 Laboratory: 27 Exams: 6 Supervised self-learning: 10.50	OBJECTIVES To know and become acquainted on basic principles of parasitic diseases of companion and domestic animals and others including: definition, nomenclature, synonyms, etiologic agent, and distribution, epidemiology, pathogenesis, clinical signs, macroscopic and microscopic lesions, clinical forms if it applies, diagnosis, treatment and control and, finally, legislation/regulation whenever it is available. LEARNING OUTCOMES CE-EP1. To know the definition, synonymy and distribution of parasitic diseases (protozoan, helminth infections and arthropodosis) of domestic animals. CE-EP2. To know how to identify the etiological agents responsible for the parasitic diseases of domestic and farm animals, to know which animals may be affected in each case, their zoonotic impact if it exists and to understand its epidemiology. CE-EP3. To know the mechanisms of pathogenic action of the parasitic agents, the immune response and, if necessary, its avoidance, and the clinical signs and macro and microscopic lesions that cause. To know the rhythms in the pathological manifestations (chronopathology) and different clinical forms, if they exist. CE-EP4. To establish a diagnosis by recognizing the clinical signs, anatomical injuries and the use of laboratory techniques (direct and indirect etiologic diagnosis, after collection and storage of biological samples), with differentiation from other pathological processes. To evaluate and to interpret the diagnosis, with prognosis of the parasitical process. CE-EP5. To establish the most appropriate measures both in affected individuals (symptomatic chemotherapy and etiologic), as in those designed to prevent its spread (sanitary measures, biological control, chemoprophylaxis and immunoprophylaxis) and to know and to apply the law, in case it exists. CE-EP6. To know how to conduct health education campaigns aimed primarily at the groups with most responsibility in the rural environment, spreading the importance and the impact of parasitic diseases on production processes, on animal and human health (zoonosis) and on the environment.

FOOD HYGIENE AND INSPECTION & FOOD SAFETY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803824	14	4:1-2	Compulsory	Lectures: 95 Seminars/Tutorials: 16 Laboratory: 24 Exams: 5 Supervised self-learning: 0	OBJECTIVES The objectives of this subject will be the identification and evaluation of biological and non-biological risks vehiculated by foods with emphasis in the evaluation and management of procedures tracking the quality and safety of foods. Of interest will be the knowledge of legislative proposals and general principles and requirements of the food law, and the use of procedures monitoring the quality and safety of foods based on the introduction of good manufacturing practices (GMP), the hazard analysis and critical control points system (HACPP), and other internationally accepted procedures such as the ISO, IFS, BRC, SQF, GLOBALGAP (EUREGAP) and others. The correct labelling and traceability of foods for tracking fraudulent practices and food-borne infections and intoxications, will be also discussed. Of interest will be the knowledge of the existence of the European Food Safety Authority (EFSA) and similar entities within the European Union (EU), and the evaluation of hazards associated to a determined food or food process based on the risk analysis, a process consisting on the analysis of three interconnected components defined as risk assessment (hazard identification, hazard characterization, exposure assessment, and risk characterization), risk management, and risk communication. Consideration will be also given to monitoring food-borne infections and intoxications by using rapid alert systems, calls for emergencies and novel procedures for the management of crisis. A description of the operations performed in the slaughterhouses and a profound knowledge of the ante-mortem and post-mortem inspection of the animals and the resulting meat will be provided, as well as information about the ante-mortem and post-mortem operations related to the hygiene and inspection of poultry, rabbits, and other animals not sacrificed in the slaughterhouses. A profound description of the hygiene, inspection and safety of meat and meat-derived products, milk and milk-derived products, fish, molluscs and crustaceans, fruits and vegetables, eggs and egg products, honey, cereals, sugar, spices, and alcoholic and non-alcoholic beverages, will be also provided. The establishment and implementation of food hygienic procedures and food-safety standards will also be discussed for food service workers, food industry operations, food industries, food retailers, retail food stores, and food-service establishments. Of special interest will be the description of programs for cleaning, disinfection, air control and rodent and pest control in the food industry. Hygiene, cleaning and sanitation are important operations for improvement in the food industry. Other

				aspects, such as the treatment of residues, subproducts, and effluents generated by the food industry, will be also considered. Consideration will be also given to the environmental impact of the residues generated by the food industry. LEARNING OUTCOMES CE-HISA1. To identify and to analyze the health risks associated with the consumption of foods, with emphasis on biotic and abiotic contaminants and food allergies and intolerances, as well as assessing the quality and safety of food from genetically modified organisms, functional foods and new foods. CE-HISA2. To know the rules of implementing measures of quality control and food safety based on the adoption of guides of good hygiene practices and international standards such as ISO, HACCP and BRC, IFS, SQF , GLOBALGAP and others. To understand, to promote and to evaluate the differentiated quality of food products in Spain and the European Union (EU). CE-HISA3. To know the labeling, labeling rules and traceability systems of food. To know the operation and accreditation of the certification and inspection organizations, the certification of auditors and managers and the official control of food quality and food safety. CE-HISA4. To assess food security based on the risk analysis considering risk assessment, risk management and risk communication. To identify possible outbreaks of food poisoning and to describe the alert management systems, emergency measures and food crises. CE-HISA5. To know the purposes of the veterinary meat inspection, to describe slaughterhouses, cutting plants and cold stores and to know the transport conditions and animal welfare. To describe the reception and care of animals before slaughter and the rules of ante-mortem inspection of animals and the emergency sacrifices. CE-HISA6. To know the general rules and methodology to follow during the post-mortem inspection of quartered animals. To know the market valuation of carcasses and describe the hygiene, the inspection and the control of residuals and meat subproducts. CE-HISA7. To know the hygiene, inspection and safety of poultry meat, rabbit meat and farmed hunting animals and meat of animals not slaughtered in slaughterhouses. To know the hygiene, inspection and safety of various types of meat and meat products. CE-HISA8. To know the hygiene, inspection and safety of milk and dairy products. To know the hygiene and safety inspection of fish and other fishery products including fish, seafood and other processed fishery products. CE-HISA9. To know the hygiene and safety inspection of vegetables, fruits and edible fungi. To know the hygiene, inspection and safety of eggs and egg products. To know the hygiene, inspection and safety of honey, cereals, sugar, spices and drinks.

					CE-HISA10. To know the rules of hygiene, inspection and control regarding food retailing, food handlers and industries of preparation and distribution of food for catering. To describe the control of water, the cleaning and disinfection procedures, the air control and the pest control. To describe the environmental hygiene standards, the hygiene and occupational safety standards and the standards for prevention and control of occupational hazards.

LARGE ANIMAL INTERNAL MEDICINE					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803819	6	4:2	Compulsory	Lectures: 45 Seminars/Tutorials: 24 Laboratory: 16.50 Exams: 1.50 Supervised self-learning: 4.50	OBJECTIVES The knowledge and correct use of clinical terminology in the clinical activity of internal medicine. The knowledge of the most important alterations included in the internal medicine of large animals. The potential design of a diagnostic plan to resolve and treat the different problems in internal medicine of large animals with the knowledge of the diagnostic aids methods. To do a true prognostic plan in every case. To know the therapeutics with indication in a specific case to apply an effective therapeutic plan. Know, recognize and treat the medical emergencies. To have the medical and legal knowledge to assure and treat the domestic's animals, included the humanitarian's euthanasia procedures. Communicate in a simply method the conclusions about the patients conditions to the owners and to do a clinical reports. Apply the special concepts to resolve the internal medicine problems in large animals. LEARNING OUTCOMES CE-MGA1. To know and to use correctly the clinical terminology in the clinical activity of internal medicine. CE-MGA2. To know the major diseases of internal medicine and nutrition of large animals, from the point of view of both the individual and the collective medicine as well as from the medicine of production. CE-MGA3. To know the diagnostic techniques to be used in internal medicine of large animals, from the point of view of their specific indications in each case, to design and to interpret a proper diagnosis plan, after the elaboration of a complete list of differential diagnoses. CE-MGA4. To perform a forecast judgment from the vital, productive and performance view point of view, for large animals. CE-MGA5. To know the treatments, the hygienic and sanitary, and dietary measures indicated in the therapeutic and/or prophylaxis of the different pathologies. To design and to implement a comprehensive treatment plan: etiological, symptomatic, individual or collective and urgent. CE-MGA6. To recognize and to treat medical emergencies. CE-MGA7. To achieve medical and legal knowledge that will ensure at all times, from both the point of view of individual medicine and collective medicine and production, animal welfare, including procedures such as euthanasia.

					CE-MGA8. To achieve medical and legal knowledge for the adequate supply to the food chain and environmental preservation. CE-MGA9. To be able to communicate fluently and comprehensibly the information obtained from the development of the clinical activity to the owner, and to present this information clearly and well organized when issuing clinical reports and development of protocols. CE-MGA10. To apply the theoretical knowledge to the resolution of clinical cases in the field of large animal medicine.

OBSTETRICS AND REPRODUCTION II					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803820	5	4:1	Compulsory	Lectures: 51 Seminars/Tutorials: 9 Laboratory: 13.50 Exams: 1.50 Supervised self-learning: 0	OBJECTIVES To gain the basic background knowledge to understand the mechanisms of fertilization, pregnancy, parturition, postpartum and its alterations. To understand the basis and acquire the comprehensive knowledge and foundation skills necessary to apply the different reproductive technologies used to optimize reproductive function and improve the genetics of the herd. To gain the basic knowledge to accurately diagnose pregnancy and its alterations, delivery care, understand the basic principles of the different treatments to possible complications. LEARNING OUTCOMES CE-OBRPII1. To know the basic concepts of fertilization and the maternal identification of pregnancy to understand and to apply the different diagnoses of gestation in different animal species. CE-OBRPII2. To know the clinical characteristics of labor and postpartum, assistance and the labor induction techniques. CE-OBRPII3. To identify and to treat early embryonic mortality, embryonic resorption, and abortions. CE-OBRPII4. To identify dystocia and its resolution. CE-OBRPII5. To study and to learn reproductive biotechnologies and its prophylactic or therapeutic application in cases of infertility.

SPECIAL SURGERY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803826	9	5:1	Compulsory	Lectures: 82.50 Seminars/Tutorials: 19.50 Laboratory: 18 Exams: 3 Supervised self-learning: 12	OBJECTIVES To know the different surgical diseases in small animals, large animals, food animals and exotic animals. To understand the diagnostic procedure in every case, and the possible surgical approaches to be applied in every animal species. To apply the Rehabilitation and Physiotherapy in animal species. LEARNING OUTCOMES CE-CE-1. To recognize the surgical diseases in the different animal species. To learn how to manage, diagnose and treat them. CE-CE-2. To study and know the different surgical techniques to be applied in specific surgical diseases. CE-CE-3. To cover the study of the surgical diseases in small animals by speciality, soft tissue surgery, maxillofacial, odontology, traumatology and neurosurgery. CE-CE-4. To cover the study of the surgical diseases in large animals distributed in equine, bovine, swine and small ruminants' surgery. CE-CE-5. To do the first surgical practical skills, both in the ambulatory patient and in the surgical theatre of small and large animals. CE-CE-6. To know and apply physiotherapy and rehabilitation procedures both in equine and canine. CE-CE-7. To study and apply the knowledge in exotic animal surgery, reptiles, birds and small mammals.

SMALL ANIMAL INTERNAL MEDICINE					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803825	8	5:1	Compulsory	Lectures: 67.50 Seminars/Tutorials: 51 Laboratory: 0 Exams: 1.50 Supervised self-learning: 0	OBJECTIVES To get to know the main diseases with a sporadic presentation in small animals. To design and interpret an appropriate diagnostic plan. To design and apply a complete therapeutic plan. To recognize and treat medical emergencies. To establish a correct prognostic judgment. LEARNING OUTCOMES CE-MPA1. To know and to use the correct medical terminology in the field of small animal medicine. CE-MPA2. To know the main diseases with sporadic presentation in small animals (dogs, cats, exotic animals) (including the following medical specialties: nephrology/urology, gastroenterology, dermatology, ophthalmology, endocrinology, oncology, neurology, cardiology, respiratory diseases, hematology, emergency medicine, behavioral disorders): etiology, pathogenesis and clinical signs. CE-MPA3. To design and to interpret a proper diagnosis plan, after the preparation of a complete list of differential diagnoses. CE-MPA4. To design and to implement a comprehensive treatment plan: etiological, symptomatic, prophylactic and emergency. CE-MPA5. To recognize and to treat the medical emergencies. CE-MPA6. To establish a correct prognostic judgment. CE-MPA7. To achieve the medical and legal knowledge that ensures animal welfare (including procedures such as euthanasia). CE-MPA8. To maintain an effective communication with veterinary professionals and the owners of sick animals, being able to transmit the relevant information in an understandable way. CE-MPA9. To know how to present clinical and scientific information in a clear and well organized way, including the issue of clinical reports. CE-MPA10. To apply the theoretical knowledge to solve clinical cases.

PREVENTIVE MEDICINE, ANIMAL HEALTH POLICY, ZONOSIS AND PUBLIC HEALTH					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803827	8	5:1	Compulsory	Lectures: 54 Seminars/Tutorials: 10.50 Laboratory: 16.50 Exams: 3 Supervised self-learning: 9	OBJECTIVES The overall objectives of all the subjects covered are: 1. Preventive Medicine: to know the sanitary and productive measures applied to livestock in order to obtain healthy animals, to increase production and to reduce economic losses, all with the highest biosecurity measures and respect for the environment and welfare animal. 2. Sanitary Police: to know the rules and regulations for the prevention, control and eradication of animal diseases. 3. Zoonosis and Public Health: to know the zoonotic diseases, their impact on public health and the measures, the health systems and the control and intervention plans against them. It also includes the analysis of the various health actions in emergencies and crises of zoonoses with significant impact on public health; to know the current health programs and the national and international structures responsible of public health. LEARNING OUTCOMES CE-MP1. To know the sanitary and productive livestock measures with the aim of obtaining sustainable production respecting the animal welfare and the environment. CE-MP2. To assess and to interpret the production and health parameters of an animal group considering the economic, health and animal welfare aspects. CE-MP3. To identify the health and environmental risks of production in farm animal species. CE-MP4. To know the bases of the preparation of health programs in order to obtain healthy animals, increase production and reduce economic losses. CE-MP5. To know the measures to keep and, when necessary, to improve the health of pets. CE-MP6. To know the policy measures aimed to prevention, control and eradication of transmissible diseases that affect animals. CE-MP7. To know the basic characteristics of the concept of public health and to deepen the knowledge and the current state of zoonoses including specific knowledge of prevention and control measures applicable to zoonoses and notifiable disease. CE-MP8. To acquire the capacity for planning, development and evaluation of health programs for the control and eradication of notifiable diseases, the zoonoses and health protection.

					CE-MP9. To know the organizational, economic, legal and public health management aspects, as well as to get trained to identify the needs and to propose policy improvements, from the interpretation, application and evaluation of food legislation, animal protection and health public.

LABORATORY ANIMALS					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803833	3	5:1	Elective	Lectures: 18 Seminars/Tutorials: 1 Laboratory: 10 Exams: 1 Supervised self-learning: 0	OBJECTIVES Acquisition of knowledge and skills needed to perform research on animals, specifically the implementation of procedures and the design of projects and procedures. Since there are regulatory requirements for the training of personnel to be met by users of animals employed for experimental and other scientific purposes, including teaching, learning objectives intended that students acquire the learning outcomes to the functions c) for carrying out procedures and d) for the design of projects and procedures. LEARNING OUTCOMES CE-AE1. Basic appropriate knowledge on maintaining animals and on rules on security, administration, transport, reception, provisioning of animals and disposal of carcasses. CE-AE2. Basic concepts relating to ethical and regulatory aspects of care provided to experimental animals. CE-AE3. Management and basic principles of maintenance of animals: Biological characteristics, in particular physiological and behavior of the species, breeds and lines of animals, according to the tasks that will be met. Management and physical containment of the animals. Nutrition and feeding of the animals. Methods of euthanasia. CE-AE4. Identification of health status and disease: Practical aspects of monitoring health and disease. To perform the necropsy technique in experimental animals and a correct sampling for complementary studies. Knowledge and diagnostic interpretation of injuries appreciated laboratory animals. CE-AE5. Implications of the microbiological status of animals. Gnotobiología basic principles, classification and needs of laboratory animals according to their health and hygiene category. Basic principles of the animal health control (prevention, hygiene and disinfection). Biological monitoring and standardization concepts. Basic knowledge of the main infectious and parasitic agents in experimental animal and, when appropriate, of the diseases they cause. CE-AE6. Recognition of pain, suffering and distress. Major drugs used in anesthesia and analgesia of laboratory animals and the management techniques. CE-AE7. Adequate formation for performing experimental procedures, insofar as necessary for tasks to be performed.

HISTORY, DOCUMENTS AND THEORY OF VETERINARY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803834	3	5:1	Elective	Lectures: 11 Seminars/Tutorials: 8 Laboratory: 10 Exams: 1 Supervised self-learning: 0	OBJECTIVES The subject of History of Veterinary requires the acquisition of a minimum knowledge of the evolution of the veterinary as profession and science. Initiation in terminology, veterinary information and documentation. Knowledge of the specific characteristics of medical language. Learning of the key techniques of scientific documentation. Introduction to specialties and professional organization. Analysis of the main theoretical concepts relating to the Veterinary. Understanding of the fundamental ideas and problems of scientific methodology. LEARNING OUTCOMES CE-HV1. To know how to manage and use the information and veterinary documentation. CE-HV2. To acquire the knowledge of the evolution of veterinary as a science and profession. CE-HV3. To place Veterinary in the national and international social context. CE-HV4. To identify the principles and foundations of the current Veterinary Medicine.

CLINICAL MEDICINE OF EXOTIC PETS					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803835	3	5:1	Elective	Lectures: 18 Seminars/Tutorials: 7.50 Laboratory: 18 Exams: 1.50 Supervised self-learning: 0	OBJECTIVES Teaching the application of clinical trials in the field of diseases affecting exotic pets. LEARNING OUTCOMES CE-CAE1. To know the environmental requirements and behavioral needs and welfare of exotic pets. CE-CAE2. To know the comparative anatomy of different species of exotic pets and their clinical and therapeutic application. CE-CAE3. Clinical study of the sick exotic pets and the medical, surgical or hygienic-dietary treatments required, as well as sporadic diseases affecting collectives. CE-CAE4. To know and to diagnose different diseases of exotic pets, individual and collective, and its prevention, with special emphasis on zoonoses and notifiable diseases. CE-CAE5. To perform the medical history and the clinical examination of exotic pets and to obtain and to submit all types of samples with its report. CE-CAE6. To perform the basic analytical techniques usual in exotic pets with diagnostic value and to interpret their clinical outcomes. CE-CAE7. To diagnose the most common diseases that occur in exotic pets, using different physical and complementary techniques, including necropsy. CE-CAE8. To deal with emergencies and to perform first aid on exotic pets. Treatment of poisoning. CE-CAE9. To perform the most common medical and surgical treatments in exotic pets, and to practice a therapeutic and safe effective management of pain.

CLINICAL DIAGNOSIS BY LABORATORY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803836	3	5:1	Elective	Lectures: 16.50 Seminars/Tutorials: 27 Laboratory: 0 Exams: 1.50 Supervised self-learning: 0	OBJECTIVES To take, handle and properly preserve biological specimens avoiding the appearance of pre-analytical errors. To recognize clinical situations where cytology is indicated, their advantages and limitations, and interpret the most common cytological patterns. To select haematological, biochemical, microbiological, virological, parasitological and cytological tests in different clinical cases from a list of differential diagnoses, and interpret the laboratory results relating each other with other clinical findings to confirm or rule out the initial differential diagnoses, issue new diagnostics and propose additional laboratory tests. To establish a correct prognostic judgment and the urgency of the clinical case with the help of laboratory results. LEARNING OUTCOMES CE-DCL1. To know the basics of the techniques used in the laboratory of clinical diagnosis. CE-DCL2. To know the collection, handling, storage and shipment of samples to the laboratory of clinical diagnosis. CE-DCL3. To know the biological factors influencing the laboratory results, as well as the most common variables responsible for preanalytical, analytical and post-analytical errors, and how to detect, minimize or avoid them. CE-DCL4. To know the biosecurity measures in the laboratory. CE-DCL5. To know the procedures to obtain the reference ranges and the validation of the laboratory tests for its use in the clinic. CE-DCL6. To know the indications, advantages and limitations of the main hematologic, clinical chemistry, microbiological, virological, and parasitological laboratory test on health assessment and diagnosis, prognosis and disease evolution. CE-DCL7. To know the applications, advantages and limitations of cytology and to interpret the most frequent cytological patterns. CE-DCL8. To select the hematological, clinical chemistry, microbiological, virological, parasitological and cytological laboratory tests from a list of differential diagnoses. CE-DCL9. To interpret the results of the laboratory tests and to relate with each other and with other clinical findings to confirm or to reject the initial differential diagnosis, to deliver new diagnostics and to propose additional laboratory tests. CE-DCL10. To plan the development of an intra-clinics laboratory and to know the selection criteria.

AQUACULTURE AND FISH PATHOLOGY					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803837	3	5:1	Elective	Lectures: 30 Seminars/Tutorials: 4.95 Laboratory: 8.55 Exams: 1.50 Supervised self-learning: 0	OBJECTIVES To be able to respond to needs and requirements of Aquaculture sector, both in productive husbandry as in health management; also the knowledge acquired will be of use on wild species closely related to the natural environment; therefore, students will learn the major diseases affecting fish and how to apply diagnosis, treatment and prevention proper protocols. LEARNING OUTCOMES CE-AI1. To enumerate and to analyze the characteristics of the aquatic environment as a specific environment in which fish farming develops, the environmental requirements of cultured species, and the levels of tolerance, adaptation, stress and well-being. CE-AI2. To know specifically the production systems, breeding techniques and management most common and important in raising fish. To describe and to critically analyze the accommodation facilities for aquaculture and aquarium. CE-AI3. To estimate the nutritional needs of fish and to know how to supply them by designing feeding programs; to formulate rations for different individuals and farms. To know the limits on the digestive and metabolic utilization of ingredients or nutrients that can cause nutritional disorders. To know specifically breeding and selection programs applicable to fish. CE-AI4. To apply the basic and differential knowledge of special pathology, pathophysiology, pharmacology and toxicology in fish farming. CE-AI5. To know specifically the major pathogens affecting fish. To apply the knowledge of pathological alterations produced by fish diseases, to analyze the pathogenic mechanisms and to establish systems of differential diagnosis. CE-AI6. To know and to analyze the effects caused by the most relevant toxicant agents in relation to fish farming and those most at risk, for both the aquatic environment and for the organisms as target of production or breeding, as well as for man, as the final receptor of the products. CE-AI7. To apply drugs commonly used in fish, including establishing the appropriate doses and to determine the impact of their use on animals, the aquatic environment and public health, especially with regard to consequences of immunotoxicity in fish by using antibiotics. CE-AI8. To conduct epidemiological studies of major transmissible fish diseases. To

					identify and to plan the appropriate measures to combat, to control and to prevent them, with special emphasis on zoonoses and notifiable diseases. CE-AI9. To develop and to implement hygiene and sanitary plans to improve the performance and welfare conditions in fish farms. To analyze issues related to food safety and traceability of products derived from fish farming. CE-AI10. To know basically the legal frameworks affecting aquaculture and the aquatic environment. To describe and to analyze multiple interactions aquaculture-environment.

VETERINARY SCIENCES AND ENVIRONMENT					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803838	3	5:1	Elective	Lectures: 12 Seminars/Tutorials: 5 Laboratory: 12 Exams: 1 Supervised self-learning: 0	OBJECTIVES To achieve an adequate knowledge of the environmental contaminants that affect ecosystems and their analysis, of the techniques to reduce the environmental impact of farming, of hunting areas and the food industry, as well as the waste management they generate and the applicable regulations. To develop and to implement models of sustainable animal production (extensive, organic and integrated production) to reduce the impact of agricultural and farming activity and to maintain a proper health, biodiversity and land management. To know the management systems of hunting and natural spaces. To know how to prevent, to identify and to control major diseases in wildlife species. To know the implications that climate change can have on the agricultural and farming industry and food security. To know the rules applicable to the management of packaging and waste generated by the food industry as well as the main techniques available for the treatment of effluents. LEARNING OUTCOMES CE-VYMA1. To know the most common contaminants in water, soil and atmosphere and its dynamics in each environment and its effects on plants, animals (including humans) and ecosystems in general. CE-VYMA2. To know the bases for the evaluation and analysis of the environmental risk products or chemicals. CE-VYMA3. To know the management systems of hunting and natural spaces. To know how to prevent, to identify and to control major diseases in wildlife species. CE-VYMA4. To be able to understand the incidence and distribution of contaminants in food processing and in livestock industries communities. To get knowledge of European, national and local Community law. CE-VYMA5. To develop the ability of analysis and criticism regarding the environmental impacts generated by the different models of agro-livestock production, locally and globally. CE-VYMA6. To know the factors that can influence on the impact of animal and food production on the environment and how to get a balance between animal production and environmental conservation. CE-VYMA7. To be able to assimilate the possibilities, fundamentals and the practice of more sustainable alternatives, such as the different options of food and livestock production: ecological, integrated and extensive, as well as its environmental, economic and social importance.

					CE-VYMA8. To understand the possibilities of extensive farming as a tool for the environmental management.

FOOD SCIENCE PRACTICUM					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803830	3	5:2	Compulsory	Lectures: 0 Seminars/Tutorials: 10 Laboratory: 50 Exams: 0 Supervised self-learning: 0	OBJECTIVES Students will develop the specific skills acquired in previous years in the field of Food Safety and Technology. In this academic course, the students will understand the need to maintain and update their professional knowledge, with particular emphasis on autonomous and continuous learning. LEARNING OUTCOMES • To train for the development of the work of a veterinarian in the implementation of the process of collection, storage and processing of food, as well as the control of parameters for optimization of the production, distribution and sale of food (from the farm to the table). • To train for the development of the work of a veterinarian in hygiene and sanitary aspects of food of animal origin and of other of veterinary inspection along the food chain in industries and food establishments, as well as the food safety and its impact in public health.

CLINICAL VETERINARY PRACTICUM					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803828	15	5:2	Compulsory	Lectures: 0 Seminars/Tutorials: 0 Laboratory: 290 Exams: 10 Supervised self-learning: 0	OBJECTIVES Knowledge and skills acquisition related to individual and groups veterinary clinical activity. LEARNING OUTCOMES CE-RC1. To recognize the main diseases affecting different animal species, both in individually medicine and in collectivities. To identify health risks. CE-RC2. To design and to interpret a proper diagnosis plan using the appropriate techniques, including imaging, after drawing up a complete list of differential diagnoses. CE-RC3. To design and to implement a comprehensive treatment plan: etiological, symptomatic, prophylactic and emergency, both individually and collectively. To establish a correct prognostic judgment. CE-RC4. To apply the control and specific prevention measures, including immunoprophylaxis, with special emphasis on zoonoses and notifiable diseases. CE-RC5. To identify the factors that influence on the animal fertility and reproductive behavior in different species. To apply the reproductive biotechnologies in different animal species. To apply the different techniques of pregnancy diagnosis, to identify and to treat losses during it. To identify the clinical features of labor and postpartum, assistance and labor induction techniques. To identify dystocia and its resolution. CE-RC6. To select the most appropriate anesthetic and analgesic technique depending on the procedure and health status of the animal. To manage the administration and monitor management equipments to implement the measures of anesthetic support and to solve potential complications. CE-RC7. To know the surgical facilities and to manage the equipment, suture material, sterilization systems and instruments. To use different surgical techniques on specific diseases, including podiatric in large animals. CE-RC8. To interpret the productive and health parameters of a collective, with the aim of obtaining healthy animals in the context of specific health programs within sustainable production that respects animal welfare and the environment. In individual medicine, to apply the medical and legal knowledge that ensures animal welfare, including euthanasia. CE-RC9. To perform necropsies in different animal species. To interpret and to diagnose gross lesions, relating them to specific diseases or syndromes. To take the appropriate samples. To issue macroscopic diagnosis and potential differential

					diagnosis. CE-RC10. To present the clinical information in a clear and well organized way, including issuing reports. To maintain effective communication with veterinary professionals, the groups with the greater responsibility in the rural environment and the animal owners, being able to transmit relevant information in an understandable manner on animal health, public health and the environment.

ANIMAL SCIENCE PRACTICUM					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803829	3	5:2	Compulsory	Lectures: 0 Seminars/Tutorials: 5 Laboratory: 55 Exams: 0 Supervised self-learning: 0	OBJECTIVES To provide students with the knowledge and skills needed for practical planning of any livestock species farming activities in order to provide animal origin products, using animal management techniques, animal hygiene and animal feeding. Application of technological processes, improvement strategies and reproductive procedures used for animal production and replacement planning based on production goals. In situ identification of animal feed raw materials, as well as facilities, equipment and tools used in the various steps in the chain of animal production. Applied knowledge of various aspects of animal husbandry, from animal food and feeding to the technical and financial management of the farm, including breeding, handling and design of housing for animals. Integrated knowledge of livestock farming and agriculture, for achieve sustainable farming systems design with agro-ecological basis. Students will be able to apply previously acquired knowledge to the evaluation of factors that influence agro-ecological integration systems. As well as applying integrated knowledge of the various animal production subjects acquired in precedent years to critical analysis of actual practical situations, identifying problems and proposing possible improvements. The students will also apply quantitative and molecular genetics in breeding programs and conservation programs for animals of veterinary interest. LEARNING OUTCOMES CE-ROTPA1. Practice planning of the production of one livestock species and of the products obtained, applying management, hygiene and ration planning techniques. CE-ROTPA2. Application of technological processes, improvement strategies and reproductive procedures applied to animal production. Planning of replacement based on production goals. CE-ROTPA3. To identify in situ the raw feed materials for animal feeding, and facilities, the machinery and tooling used in the different operations of the animal production chain. CE-ROTPA4. To know in situ and/or to apply the different aspects of livestock production, from food and feeding to the technical and economic management of the farm, through the genetic improvement, animal management and the housing design. CE-ROTPA5. To observe in situ the integration between livestock and agriculture, key to the design of the agricultural production systems with agroecologically base. To apply the knowledge acquired in the assessment of factors influencing such

					integration. CE-ROTPA6. To apply in an integrated way the knowledge acquired in the different subjects in the area of animal production to the critical analysis of real practical situations, to identify the problems that may arise and the possible improvements to be made.

EXTERNAL PRACTICE					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803831	3	5:2	Compulsory	Lectures: 0 Seminars/Tutorials: 10 Laboratory: 50 Exams: 0 Supervised self-learning: 0	OBJECTIVES The main objective of the course is to implement and supplement the knowledge acquired in the academic training of students, encouraging the acquisition of skills to prepare for the exercise of professional activities and facilitate the job search. The specific goals of the External Practice are: a) To contribute to the integral formation of students supplementing their theoretical and practical learning. b) To facilitate knowledge of the methodology appropriate to the professional reality in which students must operate, comparing and applying the acquired knowledge work. c) To promote the development of technical, methodological, personal and participatory skills. d) To get practical experience to facilitate insertion into the labour market and improve their future employability. e) To promote the values of innovation, creativity and entrepreneurship. LEARNING OUTCOMES CE-PE1. To get familiar with the situation and needs of the industry or institution in which the student is integrated. CE-PE2. To get familiar with the labor problems in a direct and applied way. CE-PE3. To develop the entrusted activity, in the context of the formation of the student in any aspect of the Veterinary Medicine.

GRADUATION THESIS (END OF DEGREE PROJECT)					
Reference number	ECTS	Position in the programme (Year: Sem.)	Compulsory / Elective	Modes of instruction (hours)	Learning outcomes
803832	6	5:2	Compulsory	Lectures: 0 Seminars/Tutorials: 0 Laboratory: 0 Exams: 0.2 Supervised self-learning: 5.8	OBJECTIVES The aim is to apply and evaluate in general all the skills acquired during the study period. LEARNING OUTCOMES CE-TFG1. To identify and to propose a scientific problem, technical, production or another, always in the field of Veterinary Medicine. CE-TFG2. To solve the problem proposed with the appropriate scientific/technological methodology. CE-TFG3. To write a report with a structure of scientific text with the working hypothesis, its objectives, an introduction that explains the problem, the methodology used to solve it, the results, a discussion to help the interpretation of the results and the conclusions derived from work. CE-TFG4. Public defense of the End of Degree Project.

Appendix 2.b.

Alignment of the syllabus with the ESEVT Day One Competences

Appendix 2.b. Alignment of the syllabus with the ESEVT Day One Competences.

Alignment of the syllabus of the Degree in Veterinary, FVM, UCM, with the ESEVT Day One Competences (as approved by the ECCVT on 26 March 2015 and proposed to the EU DG Grow as Annex 5.4.1 of the EU Directive 2013/55/EU)

Day One Competence	Subject	Schedule in the Program (Year:Semester)
1.1 Understand the ethical and legal responsibilities of the veterinarian in relation to patients, clients, society and the environment.	Deontology, Legal Medicine and Legislation	1:1
	Biochemistry and Molecular Biology	
	Animal Production Basis II: Agronomy, Economics and Veterinary Business Management	1:1-2 2:1
	Animal Breeding in Species of Veterinary Interest	
	General Pathology	
	Clinical Propaedeutics	2:1
	Breeding and Animal Science I	
	Breeding and Animal Science II	2:2
	Pharmacology and Pharmacy	2:2
	Toxicology	3:1-2
	Clinical Pharmacology and Pharmacotherapeutics	3:1-2 3:1
	Obstetrics and Reproduction I	3:1
	Obstetrics and Reproduction II	3:2
	Special Veterinary Pathology	
	Parasitic Diseases	3:2
	Infectious Diseases	4:1
	General Surgery and Anaesthesia	4:1-2
	Large Animal Internal Medicine	4:1
	Special Surgery	4:1-2
	Small Animal Internal Medicine	4:2
	Clinical Rotation	4:2
	Rotation in Animal Science	5:1
	External Practice	5:1
	End of Degree Project	5:2 5:2
	Aquaculture and Fish Diseases	5:2
	Laboratory Animals	5:2
	Clinical Medicine of Exotic Pets	
	Veterinary Sciences and Environment	5:1 Opt 5:1 Opt 5:1 Opt 5:1 Opt
1.2 Demonstrate knowledge of the organisation, management and legislation related to a veterinary business.	Deontology, Legal Medicine and Legislation	1:1
	Animal Production Basis II: Agronomy, Economics and Veterinary Business Management	2:1
	Breeding and Animal Science I	
	Breeding and Animal Science II	
	General Surgery and Anaesthesia	3:1-2
	Large Animal Internal Medicine	3:1-2
	Special Surgery	4:2
	Preventive Medicine, Animal Health Policy, Zoonosis and Public Health	4:2 5:1
	Clinical Rotation	5:1
	Rotation in Animal Science	

	External Practice End of Degree Project Aquaculture and Fish Diseases Laboratory Animals	5:2 5:2 5:2 5:2 5:1 Opt 5:1 Opt
1.3 Promote, monitor and maintain health and safety in the veterinary setting; demonstrate knowledge of systems of QA; apply principles of risk management to their practice.	Deontology, Legal Medicine and Legislation Microbiology and Immunology Animal Production Basis II: Agronomy, Economics and Veterinary Business Management Toxicology Parasitic Diseases Infectious Diseases Food Hygiene, Inspection and Safety Large Animal Internal Medicine Small Animal Internal Medicine Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation Rotation in Animal Science External Practice End of Degree Project Laboratory Animals Clinical Medicine of Exotic Pets Clinical Diagnosis by Laboratory	1:1 2:1-2 2:1 3:1 4:1 4:1-2 4:1-2 4:2 5:1 5:1 5:2 5:2 5:2 5:2 5:1 Opt 5:1 Opt 5:1 Opt
1.4 Communicate effectively with clients, the public, professional colleagues and responsible authorities, using language appropriate to the audience concerned.	Deontology, Legal Medicine and Legislation Veterinary Physiology I Veterinary Physiology II Animal Production Basis II: Agronomy, Economics and Veterinary Business Management Microbiology and Immunology Clinical Propaedeutics General Pathology Veterinary Animal Nutrition Breeding and Animal Science I Breeding and Animal Science II Food Technology Pharmacology and Pharmacy Toxicology Clinical Pharmacology and Pharmacotherapeutics Radiology and Diagnostic Imaging Obstetrics and Reproduction I Obstetrics and Reproduction II Special Veterinary Pathology Parasitic Diseases Infectious Diseases Food Hygiene, Inspection and Safety General Surgery and Anaesthesia Large Animal Internal Medicine Special Surgery Small Animal Internal Medicine	1:1 1:2 2:1 2:1 2:1-2 2:2 2:2 3:1 3:1-2 3:1-2 3:1-2 3:1 3:1 3:2 3:2 3:2 4:1 4:1-2 4:1 4:1-2 4:2 4:2

	Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation Rotation in Animal Science External Practice End of Degree Project Aquaculture and Fish Diseases Clinical Medicine of Exotic Pets Veterinary Sciences and Environment	5:1 5:1 5:1 5:2 5:2 5:2 5:2 5:1 Opt 5:1 Opt 5:1 Opt
1.5 Prepare accurate clinical and client records, and case reports when necessary, in a form satisfactory to colleagues and understandable by the public.	Deontology, Legal Medicine and Legislation Toxicology Radiology and Diagnostic Imaging Obstetrics and Reproduction I Obstetrics and Reproduction II Parasitic Diseases Infectious Diseases Food Hygiene, Inspection and Safety General Surgery and Anaesthesia Large Animal Internal Medicine Special Surgery Small Animal Internal Medicine Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation Rotation in Animal Science External Practice End of Degree Project Aquaculture and Fish Diseases Clinical Medicine of Exotic Pets	1:1 3:1 3:2 3:2 4:1 4:1 4:1-2 4:1-2 4:2 4:2 5:1 5:1 5:1 5:2 5:2 5:2 5:2 5:1 Opt 5:1 Opt
1.6 Work effectively as a member of a multi-disciplinary team in the delivery of services.	Physics and Biostatistics Applied to Veterinary Biochemistry and Molecular Biology Genetics Veterinary Physiology I Veterinary Physiology II Animal Production Basis II: Agronomy, Economics and Veterinary Business Management Animal Breeding in Species of Veterinary Interest Microbiology and Immunology General Pathology Veterinary Animal Nutrition Breeding and Animal Science I Breeding and Animal Science II Food Technology Toxicology Pharmacology and Pharmacy Clinical Pharmacology and Pharmacotherapeutics Radiology and Diagnostic Imaging Obstetrics and Reproduction I Obstetrics and Reproduction II Parasitic Diseases	1:1 1:1-2 1:2 2:1 2:1 2:1 2:1-2 2:2 3:1 3:1-2 3:1-2 3:1-2 3:1 3:1 3:2 3:2

	Special Veterinary Pathology Infectious Diseases Food Hygiene, Inspection and Safety General Surgery and Anaesthesia Large Animal Internal Medicine Special Surgery Small Animal Internal Medicine Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation Rotation in Food Hygiene and Technology Rotation in Animal Science External Practice End of Degree Project Aquaculture and Fish Diseases Laboratory Animals Clinical Medicine of Exotic Pets Clinical Diagnosis by Laboratory Veterinary Sciences and Environment	3:2 4:1 4:1 4:1-2 4:1-2 4:1-2 4:2 4:2 5:1 5:1 5:1 5:2 5:2 5:2 5:2 5:2 5:1 Opt 5:1 Opt 5:1 Opt 5:1 Opt 5:1 Opt
1.7 Understand the economic and emotional context in which the veterinarian operates.	Animal Production Basis II: Agronomy, Economics and Veterinary Business Management Animal Breeding in Species of Veterinary Interest General Pathology Veterinary Animal Nutrition Breeding and Animal Science I Breeding and Animal Science II Clinical Pharmacology and Pharmacotherapeutics Obstetrics and Reproduction I Obstetrics and Reproduction II Special Veterinary Pathology Infectious Diseases Food Hygiene, Inspection and Safety General Surgery and Anaesthesia Large Animal Internal Medicine Special Surgery Small Animal Internal Medicine Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation Rotation in Animal Science External Practice End of Degree Project Veterinary Sciences and Environment	2:1 2:1 2:2 3:1 3:1-2 3:1-2 3:2 3:2 4:1 4:1-2 4:1-2 4:1-2 4:2 4:2 5:1 5:1 5:1 5:2 5:2 5:2 5:2 5:1 Opt
1.8 Be able to review and evaluate literature and presentations critically.	Physics and Biostatistics Applied to Veterinary Deontology, Legal Medicine and Legislation Biochemistry and Molecular Biology Veterinary Histology	1:1 1:1

	Epidemiology Veterinary Physiology I Veterinary Physiology II Animal Breeding in Species of Veterinary Interest Microbiology and Immunology General Pathology Parasitology Clinical Propaedeutics Pharmacology and Pharmacy Toxicology Clinical Pharmacology and Pharmacotherapeutics Radiology and Diagnostic Imaging Obstetrics and Reproduction I Obstetrics and Reproduction II Special Veterinary Pathology Infectious Diseases Food Hygiene, Inspection and Safety General Surgery and Anaesthesia Large Animal Internal Medicine Special Surgery Small Animal Internal Medicine Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation External Practice End of Degree Project Laboratory Animals Clinical Diagnosis by Laboratory	1:1-2 1:1-2 1:2 1:2 2:1 2:1 2:1-2 2:2 2:2 2:2 3:1 3:1 3:2 3:2 3:2 4:1 4:1-2 4:1-2 4:1-2 4:2 4:2 5:1 5:1 5:1 5:2 5:2 5:2 5:1 Opt 5:1 Opt
1.9 Understand and apply principles of clinical governance, and practise evidence-based veterinary medicine.	Epidemiology Animal Production Basis II: Agronomy, Economics and Veterinary Business Management Toxicology Clinical Pharmacology and Pharmacotherapeutics Obstetrics and Reproduction I Obstetrics and Reproduction II Infectious Diseases General Surgery and Anaesthesia Large Animal Internal Medicine Special Surgery Small Animal Internal Medicine Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation External Practice End of Degree Project Clinical Medicine of Exotic Pets Clinical Diagnosis by Laboratory	1:2 2:1 3:1 3:2 3:2 4:1 4:1-2 4:2 4:2 5:1 5:1 5:1 5:2 5:2 5:2 5:1 Opt 5:1 Opt
1.10 Use their professional	Deontology, Legal Medicine and Legislation	1:1

capabilities to contribute to the advancement of veterinary knowledge, in order to improve the quality of animal care and veterinary public health.	Veterinary Histology Epidemiology Genetics Veterinary Physiology I Veterinary Physiology II Animal Science Basis I: Ethnology, Ethology, Animal Welfare and Veterinary Hygiene Animal Breeding in Species of Veterinary Interest Microbiology and Immunology Pharmacology and Pharmacy Veterinary Animal Nutrition Toxicology Breeding and Animal Science I Breeding and Animal Science II Clinical Pharmacology and Pharmacotherapeutics Radiology and Diagnostic Imaging Obstetrics and Reproduction I Parasitic Diseases Obstetrics and Reproduction II Infectious Diseases Food Hygiene, Inspection and Safety General Surgery and Anaesthesia Large Animal Internal Medicine Special Surgery Small Animal Internal Medicine Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation Rotation in Animal Science External Practice End of Degree Project Aquaculture and Fish Diseases Laboratory Animals Clinical Medicine of Exotic Pets Clinical Diagnosis by Laboratory History, Documentation and Theory of Veterinary Veterinary Sciences and Environment	1:1-2 1:2 1:2 1:2 2:1 2:1 2:1 2:1-2 3:1 3:1 3:1 3:1-2 3:1-2 3:2 3:2 3:2 4:1 4:1 4:1-2 4:1-2 4:2 4:2 5:1 5:1 5:1 5:2 5:2 5:2 5:2 5:1 Opt 5:1 Opt 5:1 Opt 5:1 Opt 5:1 Opt 5:1 Opt
1.11 Demonstrate ability to cope with incomplete information, deal with contingencies, and adapt to change.	Biochemistry and Molecular Biology Epidemiology Animal Production Basis II: Agronomy, Economics and Veterinary Business Management Animal Breeding in Species of Veterinary Interest Microbiology and Immunology Veterinary Animal Nutrition Toxicology Breeding and Animal Science I Breeding and Animal Science II Food Technology Clinical Pharmacology and Pharmacotherapeutics	1:1-2 1:2 2:1 2:1 2:1-2 3:1 3:1 3:1-2 3:1-2 3:1-2

	Obstetrics and Reproduction I Obstetrics and Reproduction II Infectious Diseases Food Hygiene, Inspection and Safety Large Animal Internal Medicine Small Animal Internal Medicine Clinical Rotation Rotation in Animal Science External Practice End of Degree Project Laboratory Animals Veterinary Sciences and Environment	3:2 3:2 4:1 4:1-2 4:1-2 4:2 5:1 5:2 5:2 5:2 5:2 5:1 Opt 5:1 Opt
1.12 Demonstrate that they recognise personal and professional limits, and know how to seek professional advice, assistance and support when necessary.	Deontology, Legal Medicine and Legislation Veterinary Physiology I Veterinary Physiology II Microbiology and Immunology General Pathology Pharmacology and Pharmacy Toxicology Breeding and Animal Science I Food Technology Clinical Pharmacology and Pharmacotherapeutics Radiology and Diagnostic Imaging Obstetrics and Reproduction I Parasitic Diseases Obstetrics and Reproduction II Special Veterinary Pathology Infectious Diseases Food Hygiene, Inspection and Safety Large Animal Internal Medicine Small Animal Internal Medicine Clinical Rotation External Practice End of Degree Project Laboratory Animals Clinical Medicine of Exotic Pets History, Documentation and Theory of Veterinary	1:1 1:2 2:1 2:1-2 2:2 3:1 3:1 3:1-2 3:1-2 3:2 3:2 3:2 4:1 4:1 4:1-2 4:1-2 4:1-2 4:2 5:1 5:2 5:2 5:2 5:1 Opt 5:1 Opt 5:1 Opt
1.13 Demonstrate an ability of lifelong learning and a commitment to learning and professional development. This includes recording and reflecting on professional experience and taking measures to improve performance and competence.	Deontology, Legal Medicine and Legislation Veterinary Histology Biochemistry and Molecular Biology Genetics Veterinary Physiology I Veterinary Physiology II Animal Breeding in Species of Veterinary Interest Microbiology and Immunology General Pathology Parasitology Veterinary Animal Nutrition Pharmacology and Pharmacy Toxicology	1:1 1:1-2 1:2 1:2 1:2 2:1 2:1 2:1-2 2:2 2:2 3:1

	Breeding and Animal Science I Breeding and Animal Science II Food Technology Clinical Pharmacology and Pharmacotherapeutics Obstetrics and Reproduction I Radiology and Diagnostic Imaging Obstetrics and Reproduction II Parasitic Diseases Special Veterinary Pathology Infectious Diseases Food Hygiene, Inspection and Safety General Surgery and Anaesthesia Large Animal Internal Medicine Special Surgery Small Animal Internal Medicine Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation Rotation in Food Hygiene and Technology Rotation in Animal Science External Practice End of Degree Project Laboratory Animals History, Documentation and Theory of Veterinary Veterinary Sciences and Environment	3:1 3:1 3:1-2 3:1-2 3:1-2 3:2 3:2 3:2 3:2 3:2 4:1 4:1-2 4:1-2 4:1-2 4:2 4:2 5:1 5:1 5:1 5:2 5:2 5:2 5:2 5:2 5:1 Opt 5:1 Opt 5:1 Opt
1.14 Take part in self-audit and peer-group review processes in order to improve performance.	Deontology, Legal Medicine and Legislation Biochemistry and Molecular Biology Microbiology and Immunology Toxicology Clinical Pharmacology and Pharmacotherapeutics Food Hygiene, Inspection and Safety Large Animal Internal Medicine Small Animal Internal Medicine Clinical Rotation External Practice End of Degree Project	1:1 1:1-2 2:1-2 3:1 3:2 4:1-2 4:2 5:1 5:2 5:2 5:2
1.15 Obtain an accurate and relevant history of the individual animal or animal group, and its/their environment.	Deontology, Legal Medicine and Legislation Animal Breeding in Species of Veterinary Interest General Pathology Clinical Propaedeutics Toxicology Breeding and Animal Science II Obstetrics and Reproduction I Parasitic Diseases Obstetrics and Reproduction II Special Veterinary Pathology Infectious Diseases Food Hygiene, Inspection and Safety	1:1 2:1 2:2 2:2 3:1 3:1-2 3:2 4:1 4:1 4:1-2

	Large Animal Internal Medicine Small Animal Internal Medicine Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation Rotation in Animal Science External Practice End of Degree Project Aquaculture and Fish Diseases Laboratory Animals Clinical Medicine of Exotic Pets	4:1-2 4:1-2 4:2 5:1 5:1 5:2 5:2 5:2 5:2 5:1 Opt 5:1 Opt 5:1 Opt
1.16 Handle and restrain animal patients safely and with respect of the animal, and instruct others in helping the veterinarian perform these techniques.	Deontology, Legal Medicine and Legislation Veterinary Physiology I Veterinary Physiology II General Pathology Clinical Propaedeutics Pharmacology and Pharmacy Breeding and Animal Science I Breeding and Animal Science II Clinical Pharmacology and Pharmacotherapeutics Special Veterinary Pathology Food Hygiene, Inspection and Safety Large Animal Internal Medicine Small Animal Internal Medicine Clinical Rotation Rotation in Animal Science External Practice End of Degree Project Laboratory Animals Clinical Medicine of Exotic Pets	1:1 1:2 2:1 2:2 2:2 3:1 3:1-2 3:1-2 3:2 4:1-2 4:1-2 4:2 5:1 5:2 5:2 5:2 5:2 5:1 Opt 5:1 Opt
1.17 Perform a complete clinical examination and demonstrate ability in clinical decision-making	Clinical Propaedeutics Food Hygiene, Inspection and Safety General Surgery and Anaesthesia Large Animal Internal Medicine Special Surgery Small Animal Internal Medicine Clinical Rotation External Practice End of Degree Project Laboratory Animals Clinical Medicine of Exotic Pets	2:2 4:1-2 4:2 4:2 5:1 5:1 5:2 5:2 5:2 5:1 Opt 5:1 Opt
1.18 Develop appropriate treatment plans and administer treatment in the interests of the patients and with regard to the resources available	Pharmacology and Pharmacy Toxicology Clinical Pharmacology and Pharmacotherapeutics Obstetrics and Reproduction I Obstetrics and Reproduction II Infectious Diseases General Surgery and Anaesthesia	3:1 3:1 3:2 3:2 4:1 4:1-2 4:2

	Large Animal Internal Medicine Special Surgery Small Animal Internal Medicine Clinical Rotation External Practice End of Degree Project Aquaculture and Fish Diseases Laboratory Animals Clinical Medicine of Exotic Pets	4:2 5:1 5:1 5:2 5:2 5:2 5:1 Opt 5:1 Opt 5:1 Opt
1.19 Attend all species in an emergency and perform first aid.	General Surgery and Anaesthesia Large Animal Internal Medicine Special Surgery Small Animal Internal Medicine Clinical Rotation External Practice End of Degree Project Clinical Medicine of Exotic Pets	4:2 4:2 5:1 5:1 5:2 5:2 5:2 5:1 Opt
1.20 Assess the physical condition, welfare and nutritional status of an animal or group of animals and advise the client on principles of husbandry and feeding.	Deontology, Legal Medicine and Legislation Clinical Propaedeutics Veterinary Animal Nutrition Breeding and Animal Science I Breeding and Animal Science II Food Hygiene, Inspection and Safety Large Animal Internal Medicine Small Animal Internal Medicine Clinical Rotation Rotation in Animal Science External Practice End of Degree Project Aquaculture and Fish Diseases Laboratory Animals Clinical Medicine of Exotic Pets	1:1 2:2 3:1 3:1-2 3:1-2 4:1-2 4:2 5:1 5:2 5:2 5:2 5:2 5:1 Opt 5:1 Opt 5:1 Opt
1.21 Collect, preserve and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of the test results.	Deontology, Legal Medicine and Legislation Physics and Biostatistics Applied to Veterinary Biochemistry and Molecular Biology Veterinary Histology Veterinary Physiology I Veterinary Physiology II Animal Production Basis II: Agronomy, Economics and Veterinary Business Management Microbiology and Immunology General Pathology Nosology and Physiopathology Veterinary Animal Nutrition Toxicology Breeding and Animal Science II Obstetrics and Reproduction I Parasitic Diseases Obstetrics and Reproduction II Special Veterinary Pathology Infectious Diseases Food Hygiene, Inspection and Safety	1:1 1:1 1:1-2 1:1-2 1:2 2:1 2:1 2:1-2 2:2 2:2 3:1 3:1 3:1-2 3:2 4:1 4:1

	Large Animal Internal Medicine Small Animal Internal Medicine Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation Rotation in Food Hygiene and Technology Rotation in Animal Science External Practice End of Degree Project Aquaculture and Fish Diseases Laboratory Animals Clinical Medicine of Exotic Pets Clinical Diagnosis by Laboratory Veterinary Sciences and Environment	4:1-2 4:1-2 4:1-2 4:2 5:1 5:1 5:2 5:2 5:2 5:2 5:2 5:1 Opt 5:1 Opt 5:1 Opt 5:1 Opt 5:1 Opt
1.22 Communicate clearly and collaborate with referral and diagnostic services, including providing an appropriate history.	Microbiology and Immunology Toxicology Radiology and Diagnostic Imaging Obstetrics and Reproduction I Obstetrics and Reproduction II Infectious Diseases Food Hygiene, Inspection and Safety Large Animal Internal Medicine Small Animal Internal Medicine Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation External Practice End of Degree Project Clinical Medicine of Exotic Pets Clinical Diagnosis by Laboratory	2:1-2 3:1 3:2 3:2 4:1 4:1-2 4:1-2 4:2 5:1 5:1 5:2 5:2 5:2 5:1 Opt 5:1 Opt
1.23 Understand the contribution that imaging and other diagnostic techniques can make in achieving a diagnosis. Use basic imaging equipment and carry out an examination effectively as appropriate to the case, in accordance with good health and safety practice and current regulations.	Radiology and Diagnostic Imaging Obstetrics and Reproduction I Obstetrics and Reproduction II Food Hygiene, Inspection and Safety General Surgery and Anaesthesia Large Animal Internal Medicine Special Surgery Small Animal Internal Medicine Clinical Rotation External Practice End of Degree Project Aquaculture and Fish Diseases	3:2 3:2 4:1 4:1-2 4:2 4:2 5:1 5:1 5:2 5:2 5:2 5:1 Opt
1.24 Recognise suspicious signs of possible notifiable, reportable and zoonotic diseases and take appropriate action, including notifying the relevant authorities.	Deontology, Legal Medicine and Legislation Toxicology Obstetrics and Reproduction I Parasitic Diseases Obstetrics and Reproduction II Infectious Diseases Food Hygiene, Inspection and Safety	1:1 3:1 3:2 4:1 4:1 4:1-2

	Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation External Practice End of Degree Project Laboratory Animals Clinical Medicine of Exotic Pets	4:1-2 5:1 5:2 5:2 5:2 5:1 Opt 5:1 Opt
1.25 Access the appropriate sources of data on licensed medicines.	Deontology, Legal Medicine and Legislation Pharmacology and Pharmacy Clinical Pharmacology and Pharmacotherapeutics Food Hygiene, Inspection and Safety Large Animal Internal Medicine Small Animal Internal Medicine Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation External Practice End of Degree Project Aquaculture and Fish Diseases Laboratory Animals Clinical Medicine of Exotic Pets	1:1 3:1 3:2 4:1-2 4:2 5:1 5:1 5:2 5:2 5:2 5:1 Opt 5:1 Opt 5:1 Opt
1.26 Prescribe and dispense medicines correctly and responsibly in accordance with legislation and latest guidance.	Pharmacology and Pharmacy Clinical Pharmacology and Pharmacotherapeutics Obstetrics and Reproduction I Parasitic Diseases Obstetrics and Reproduction II Infectious Diseases General Surgery and Anaesthesia Large Animal Internal Medicine Special Surgery Small Animal Internal Medicine Clinical Rotation External Practice End of Degree Project Aquaculture and Fish Diseases Clinical Medicine of Exotic Pets	3:1 3:2 3:2 4:1 4:1 4:1-2 4:2 4:2 5:1 5:1 5:2 5:2 5:2 5:1 Opt 5:1 Opt
1.27 Report suspected adverse reactions.	Toxicology Clinical Pharmacology and Pharmacotherapeutics Radiology and Diagnostic Imaging Obstetrics and Reproduction I Food Hygiene, Inspection and Safety Large Animal Internal Medicine Small Animal Internal Medicine Clinical Rotation External Practice End of Degree Project Clinical Medicine of Exotic Pets	3:1 3:2 3:2 3:2 4:1-2 4:2 5:1 5:2 5:2 5:2 5:1 Opt

1.28 Apply principles of bio-security correctly, including sterilisation of equipment and disinfection of clothing.	Biochemistry and Molecular Biology Microbiology and Immunology Toxicology Radiology and Diagnostic Imaging Parasitic Diseases Infectious Diseases Food Hygiene, Inspection and Safety General Surgery and Anaesthesia Large Animal Internal Medicine Special Surgery Small Animal Internal Medicine Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation Rotation in Animal Science External Practice End of Degree Project Laboratory Animals Clinical Medicine of Exotic Pets Clinical Diagnosis by Laboratory	1:1-2 2:1-2 3:1 3:2 4:1 4:1-2 4:1-2 4:2 4:2 5:1 5:1 5:1 5:2 5:2 5:2 5:2 5:1 Opt 5:1 Opt 5:1 Opt
1.29 Perform aseptic surgery correctly.	General Surgery and Anaesthesia Special Surgery Clinical Rotation External Practice End of Degree Project Laboratory Animals	4:2 5:1 5:2 5:2 5:2 5:1 Opt
1.30 Safely perform sedation, and general and regional anaesthesia; implement chemical methods of restraint.	Pharmacology and Pharmacy Clinical Pharmacology and Pharmacotherapeutics General Surgery and Anaesthesia Special Surgery Clinical Rotation External Practice End of Degree Project Laboratory Animals	3:1 3:2 4:2 5:1 5:2 5:2 5:2 5:1 Opt
1.31 Assess and manage pain.	Deontology, Legal Medicine and Legislation Pharmacology and Pharmacy Toxicology Clinical Pharmacology and Pharmacotherapeutics Obstetrics and Reproduction I Obstetrics and Reproduction II Food Hygiene, Inspection and Safety General Surgery and Anaesthesia Large Animal Internal Medicine Small Animal Internal Medicine Clinical Rotation External Practice End of Degree Project Laboratory Animals Clinical Medicine of Exotic Pets	1:1 3:1 3:1 3:2 3:2 4:1 4:1-2 4:2 4:2 5:1 5:2 5:2 5:2 5:1 Opt 5:1 Opt

1.32 Recognise when euthanasia is appropriate and perform it with respect of the animal, using an appropriate method, whilst showing sensitivity to the feelings of owners and others, with due regard to the safety of those present; advise on disposal of the carcase.	Deontology, Legal Medicine and Legislation Infectious Diseases Large Animal Internal Medicine Small Animal Internal Medicine Special Surgery Clinical Rotation External Practice End of Degree Project Laboratory Animals Clinical Medicine of Exotic Pets	1:1 4:1-2 4:2 5:1 5:2 5:2 5:2 5:2 5:1 Opt 5:1 Opt
1.33 Perform a systematic gross post-mortem examination, record observations, sample tissues, store and transport them.	Deontology, Legal Medicine and Legislation General Pathology Parasitic Diseases Special Veterinary Pathology Infectious Diseases Food Hygiene, Inspection and Safety Large Animal Internal Medicine Clinical Rotation External Practice End of Degree Project Aquaculture and Fish Diseases Laboratory Animals	1:1 2:2 4:1 4:1-2 4:1-2 4:1-2 4:2 5:2 5:2 5:2 5:1 Opt 5:1 Opt
1.34 Perform ante-mortem inspection of animals destined for the food-chain, including paying attention to welfare aspects; correctly identify conditions affecting the quality and safety of products of animal origin, to exclude those animals whose condition means their products are unsuitable for the food-chain.	Deontology, Legal Medicine and Legislation Parasitic Diseases Infectious Diseases Food Hygiene, Inspection and Safety External Practice End of Degree Project Aquaculture and Fish Diseases	1:1 4:1 4:1-2 4:1-2 5:2 5:2 5:1 Opt
1.35 Perform inspection of food and feed including post-mortem inspection of food producing animals and inspection in the field of food technology.	Deontology, Legal Medicine and Legislation Parasitic Diseases Infectious Diseases Food Hygiene, Inspection and Safety Rotation in Food Hygiene and Technology External Practice End of Degree Project Aquaculture and Fish Diseases	1:1 4:1 4:1-2 4:1-2 5:2 5:2 5:2 5:1 Opt
1.36 Advise on, and implement, preventative programmes appropriate to the species and in line with accepted animal health, welfare and public health standards.	Deontology, Legal Medicine and Legislation Animal Science Basis I: Ethnology, Ethology, Animal Welfare and Veterinary Hygiene Genetics Veterinary Physiology I Veterinary Physiology II Breeding and Animal Science I Breeding and Animal Science II Clinical Pharmacology and	1:1 1:1-2 1:2 1:2 2:1 3:1-2

	Pharmacotherapeutics	3:1-2
	Parasitic Diseases	3:2
	Infectious Diseases	
	Food Hygiene, Inspection and Safety	4:1
	Large Animal Internal Medicine	4:1-2
	Small Animal Internal Medicine	4:1-2
	Preventive Medicine, Animal Health Policy,	4:2
	Zoonosis and Public Health	5:1
	Clinical Rotation	5:1
	Rotation in Animal Science	
	External Practice	5:2
	End of Degree Project	5:2
		5:2
	Aquaculture and Fish Diseases	5:2
	Laboratory Animals	
		5:1 Opt
		5:1 Opt

Underpinning knowledge and understanding	Subject	Schedule in the Program (Year:Semester)
2.1 Understanding of and competence in, the logical approaches to both scientific and clinical reasoning, the distinction between the two, and the strengths and limitations of each.	Deontology, Legal Medicine and Legislation	1:1
	Biochemistry and Molecular Biology	1:1-2
	Microbiology and Immunology	2:1-2
	Toxicology	3:1
	Obstetrics and Reproduction I	3:2
	Obstetrics and Reproduction II	4:1
	Infectious Diseases	4:1-2
	Food Hygiene, Inspection and Safety	4:1-2
	Medicina Interna de Grandes Animales	4:2
	Small Animal Internal Medicine	5:1
	Clinical Rotation	5:2
	External Practice	5:2
	End of Degree Project	5:2
2.2 Research methods and the contribution of basic and applied research to veterinary science.	Physics and Biostatistics Applied to Veterinary	1:1
	Chemistry, Zoology and Botany Applied to Veterinary	1:1
	Biochemistry and Molecular Biology	1:1-2
	Veterinary Histology	1:1-2
	Epidemiology	1:2
	Veterinary Physiology I	1:2
	Genetics	1:2
	Veterinary Physiology II	2:1
	Animal Breeding in Species of Veterinary Interest	2:1
	Microbiology and Immunology	2:1-2
	General Pathology	2:2
	Pharmacology and Pharmacy	3:1
	Veterinary Animal Nutrition	3:1

	Toxicology 3:1 Breeding and Animal Science I 3:1-2 Breeding and Animal Science II 3:1-2 Food Technology 3:1-2 Clinical Pharmacology and Pharmacotherapeutics 3:2 Obstetrics and Reproduction I 3:2 Parasitic Diseases 4:1 Obstetrics and Reproduction II 4:1 Special Veterinary Pathology 4:1-2 Food Hygiene, Inspection and Safety 4:1-2 General Surgery and Anaesthesia 4:2 Special Surgery 5:1 Preventive Medicine, Animal Health Policy, Zoonosis and Public Health 5:1 Rotation in Animal Science 5:2 External Practice 5:2 End of Degree Project 5:2 Laboratory Animals 5:1 Opt Veterinary Sciences and Environment 5:1 Opt	
2.3 The structure, function and behaviour of animals and their physiological and welfare needs, including healthy common domestic animals, captive wildlife and laboratory-housed animals.	Chemistry, Zoology and Botany Applied to Veterinary 1:1 Anatomy and Embryology I 1:1-2 Biochemistry and Molecular Biology 1:1-2 Veterinary Histology 1:1-2 Genetics 1:2 Veterinary Physiology I 1:2 Anatomy and Embryology II 2:1 Veterinary Physiology II 2:1 Microbiology and Immunology 2:1-2 Parasitology 2:2 Breeding and Animal Science I 3:1-2 Breeding and Animal Science II 3:1-2 Food Hygiene, Inspection and Safety 4:1-2 Large Animal Internal Medicine 4:2 Rotation in Animal Science 5:2 External Practice 5:2 End of Degree Project 5:2 Laboratory Animals 5:1 Opt	
2.4 A knowledge of the businesses related to animal breeding, production and keeping.	Animal Production Basis II: Agronomy, Economics and Veterinary Business Management 2:1 Obstetrics and Reproduction II 4:1 Food Hygiene, Inspection and Safety 4:1-2 Large Animal Internal Medicine 4:2 External Practice 5:2 End of Degree Project 5:2	

2.5 The aetiology, pathogenesis, clinical signs, diagnosis and treatment of the common diseases and disorders that occur in all common domestic species.	Microbiology and Immunology General Pathology Nosology and Physiopathology Toxicology Clinical Pharmacology and Pharmacotherapeutics Obstetrics and Reproduction I Parasitic Diseases Obstetrics and Reproduction II Special Veterinary Pathology Infectious Diseases Food Hygiene, Inspection and Safety Large Animal Internal Medicine Small Animal Internal Medicine Clinical Rotation External Practice End of Degree Project Aquaculture and Fish Diseases Laboratory Animals Clinical Medicine of Exotic Pets	2:1-2 2:2 2:2 3:1 3:2 3:2 4:1 4:1 4:1-2 4:1-2 4:1-2 4:1-2 4:2 5:1 5:2 5:2 5:2 5:1 Opt 5:1 Opt 5:1 Opt
2.6 Awareness of other diseases of international importance that pose a risk to national and international biosecurity and trade.	Deontology, Legal Medicine and Legislation Animal Production Basis II: Agronomy, Economics and Veterinary Business Management Microbiology and Immunology General Pathology Veterinary Animal Nutrition Toxicology Parasitic Diseases Obstetrics and Reproduction II Special Veterinary Pathology Infectious Diseases Food Hygiene, Inspection and Safety Large Animal Internal Medicine Preventive Medicine, Animal Health Policy, Zoonosis and Public Health Clinical Rotation External Practice End of Degree Project Aquaculture and Fish Diseases Laboratory Animals	1:1 2:1 2:1-2 2:2 3:1 3:1 4:1 4:1 4:1-2 4:1-2 4:1-2 4:1-2 4:2 5:1 5:2 5:2 5:2 5:1 Opt 5:1 Opt
2.7 Legislation relating to animal care and welfare, animal movement, and notifiable and reportable diseases.	Deontology, Legal Medicine and Legislation Animal Science Basis I: Ethnology, Ethology, Animal Welfare and Veterinary Hygiene Toxicology Breeding and Animal Science I Breeding and Animal Science II	1:1 2:1 3:1 3:1-2 3:1-2

	Parasitic Diseases 4:1 Infectious Diseases 4:1-2 Food Hygiene, Inspection and Safety 4:1-2 Large Animal Internal Medicine 4:2 Preventive Medicine, Animal Health Policy, Zoonosis and Public Health 5:1 Rotation in Animal Science 5:2 External Practice 5:2 End of Degree Project 5:2 Aquaculture and Fish Diseases 5:1 Opt Laboratory Animals 5:1 Opt Clinical Medicine of Exotic Pets 5:1 Opt
2.8 Medicines legislation and guidelines on responsible use of medicines, including responsible use of antimicrobials and antiparasitic drugs.	Deontology, Legal Medicine and Legislation 1:1 Pharmacology and Pharmacy 3:1 Clinical Pharmacology and Pharmacotherapeutics 3:2 Parasitic Diseases 4:1 Infectious Diseases 4:1-2 Food Hygiene, Inspection and Safety 4:1-2 Large Animal Internal Medicine 4:2 Small Animal Internal Medicine 5:1 Preventive Medicine, Animal Health Policy, Zoonosis and Public Health 5:1 Clinical Rotation 5:2 External Practice 5:2 End of Degree Project 5:2 Laboratory Animals 5:1 Opt Clinical Medicine of Exotic Pets 5:1 Opt
2.9 The principles of disease prevention and the promotion of health and welfare.	Animal Science Basis I: 1:1-2 Ethnology, Ethology, Animal Welfare and Veterinary Hygiene Epidemiology 1:2 Pharmacology and Pharmacy 3:1 Veterinary Animal Nutrition 3:1 Breeding and Animal Science I 3:1-2 Breeding and Animal Science II 3:1-2 Clinical Pharmacology and Pharmacotherapeutics 3:2 Parasitic Diseases 4:1 Infectious Diseases 4:1-2 Food Hygiene, Inspection and Safety 4:1-2 Large Animal Internal Medicine 4:2 Small Animal Internal Medicine 5:1 Preventive Medicine, Animal Health Policy, Zoonosis and Public Health 5:1 Clinical Rotation 5:2 Rotation in Animal Science 5:2

	External Practice End of Degree Project	5:2 5:2
	Aquaculture and Fish Diseases Laboratory Animals	5:1 Opt 5:1 Opt
2.10 Veterinary public health issues, including epidemiology, transboundary epizootic diseases, zoonotic and food-borne diseases, emerging and re-emerging diseases, food hygiene and technology.	Deontology, Legal Medicine and Legislation Epidemiology Microbiology and Immunology Food Technology Clinical Pharmacology and Pharmacotherapeutics Parasitic Diseases Infectious Diseases Food Hygiene, Inspection and Safety Large Animal Internal Medicine Preventive Medicine, Animal Health Policy, Zoonosis and Public Health External Practice End of Degree Project Laboratory Animals Clinical Medicine of Exotic Pets Veterinary Sciences and Environment	1:1 1:2 2:1-2 3:1-2 3:2 4:1 4:1-2 4:1-2 4:2 5:1 5:2 5:2 5:1 Opt 5:1 Opt 5:1 Opt
2.11 Principles of effective interpersonal interaction, including communication, leadership, management and team working.	Physics and Biostatistics Applied to Veterinary Deontology, Legal Medicine and Legislation Biochemistry and Molecular Biology Veterinary Histology Veterinary Physiology I Veterinary Physiology II Microbiology and Immunology Pharmacology and Pharmacy Toxicology Farmacología Clínica y Farmacoterapéutica Obstetrics and Reproduction I Obstetrics and Reproduction II Food Hygiene, Inspection and Safety Large Animal Internal Medicine Small Animal Internal Medicine Clinical Rotation External Practice End of Degree Project	1:1 1:1 1:1-2 1:1-2 1:2 2:1 2:1-2 3:1 3:1 3:2 3:2 4:1 4:1-2 4:2 5:1 5:2 5:2 5:2
2.12 The ethical framework within which veterinarians should work, including important ethical theories that inform decision-making in professional and animal welfare-	Deontology, Legal Medicine and Legislation Veterinary Physiology I Genetics Veterinary Physiology II Microbiology and Immunology	1:1 1:2 1:2 2:1 2:1-2

related ethics.	General Pathology	2:2
	Breeding and Animal Science I	3:1-2
	Breeding and Animal Science II	3:1-2
	Food Technology	3:1-2
	Special Veterinary Pathology	4:1-2
	Infectious Diseases	4:1-2
	Food Hygiene, Inspection and Safety	4:1-2
	General Surgery and Anaesthesia	4:2
	Large Animal Internal Medicine	4:2
	Special Surgery	5:1
	Small Animal Internal Medicine	5:1
	Preventive Medicine, Animal Health Policy, Zoonosis and Public Health	5:1
	Clinical Rotation	5:2
	Rotation in Food Hygiene and Technology	5:2
	External Practice	5:2
	End of Degree Project	5:2
	Laboratory Animals	5:1 Opt

Appendix 3.

Maps of the Establishment and the intra-mural and extra-mural facilities used in the core veterinary programme



UNIVERSIDAD COMPLUTENSE
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FACULTAD DE VETERINARIA

Plans and maps

Veterinary Faculty

INDEX

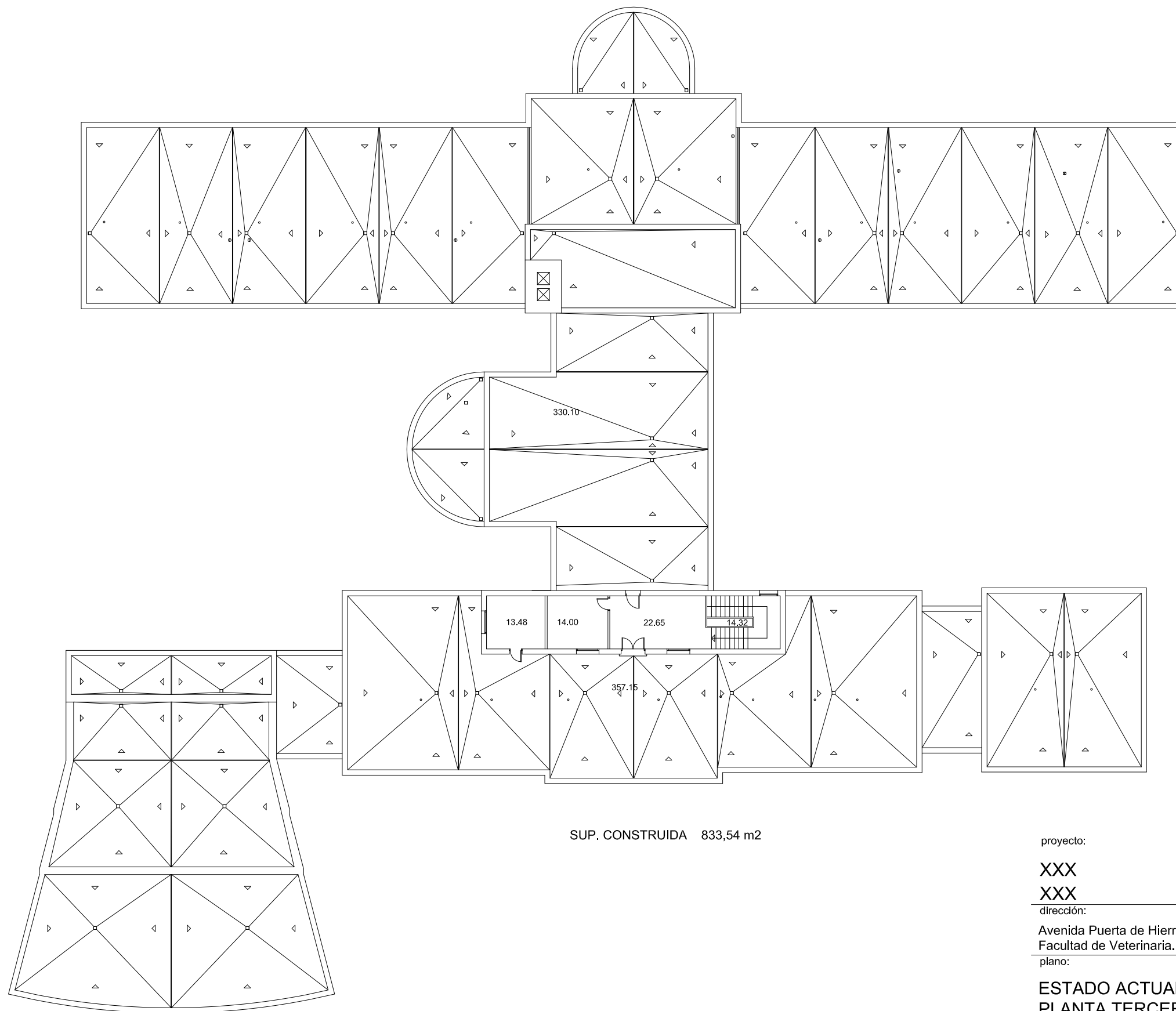
- 1.- Main building p.3
- 2.- Building-A p.14
- 3.- Building-B p.16
- 4.- Anatomy building p.20
- 5.- Animal health building p.25
- 6.- Food science and technology building p.28
- 7.- Animal physiology building p.33
- 8.- *Animalarium* of the Department of Animal physiology p.36
- 9.- Animal production building p.39
- 10.- Teaching farm p.44
- 11.- Veterinary teaching hospital building p.56
- 12.- Appendix I (Location and Access) p 63
- 13.- Appendix II (Buildings distribution) p 65



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FACULTAD DE VETERINARIA

Main building



SUP. CONSTRUIDA 833,54 m2

proyecto:

XXX

XXX

dirección:

Avenida Puerta de Hierro, 3. Madrid
Facultad de Veterinaria. Edificio Principal

plano:

ESTADO ACTUAL
PLANTA TERCERA Y CUBIERTA
XXX

autor:

Antonio J. Letón Carrasco. arquitecto

Vicegerencia de Gestión y Organización - Dirección de Obras y Mantenimiento

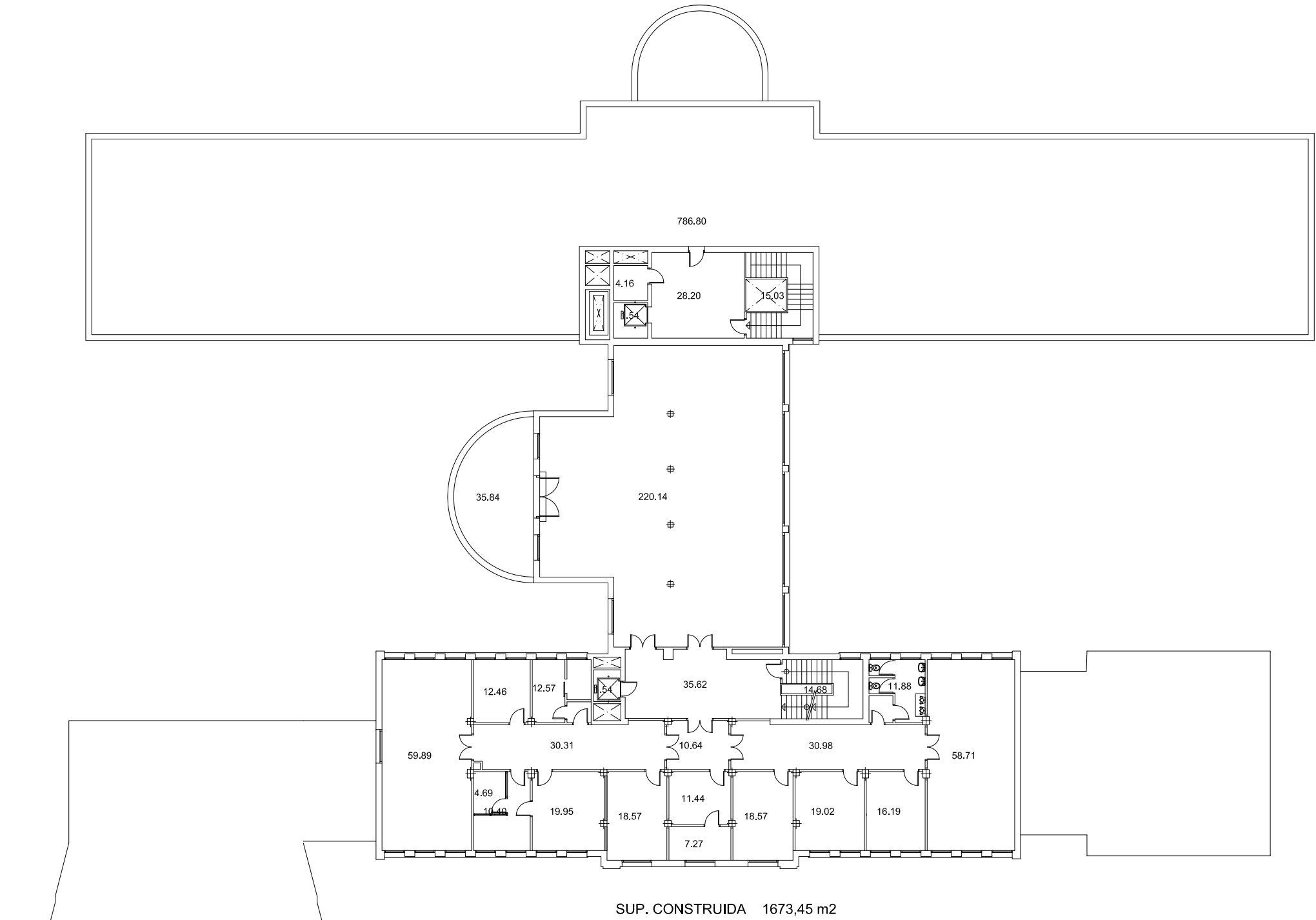
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plano:

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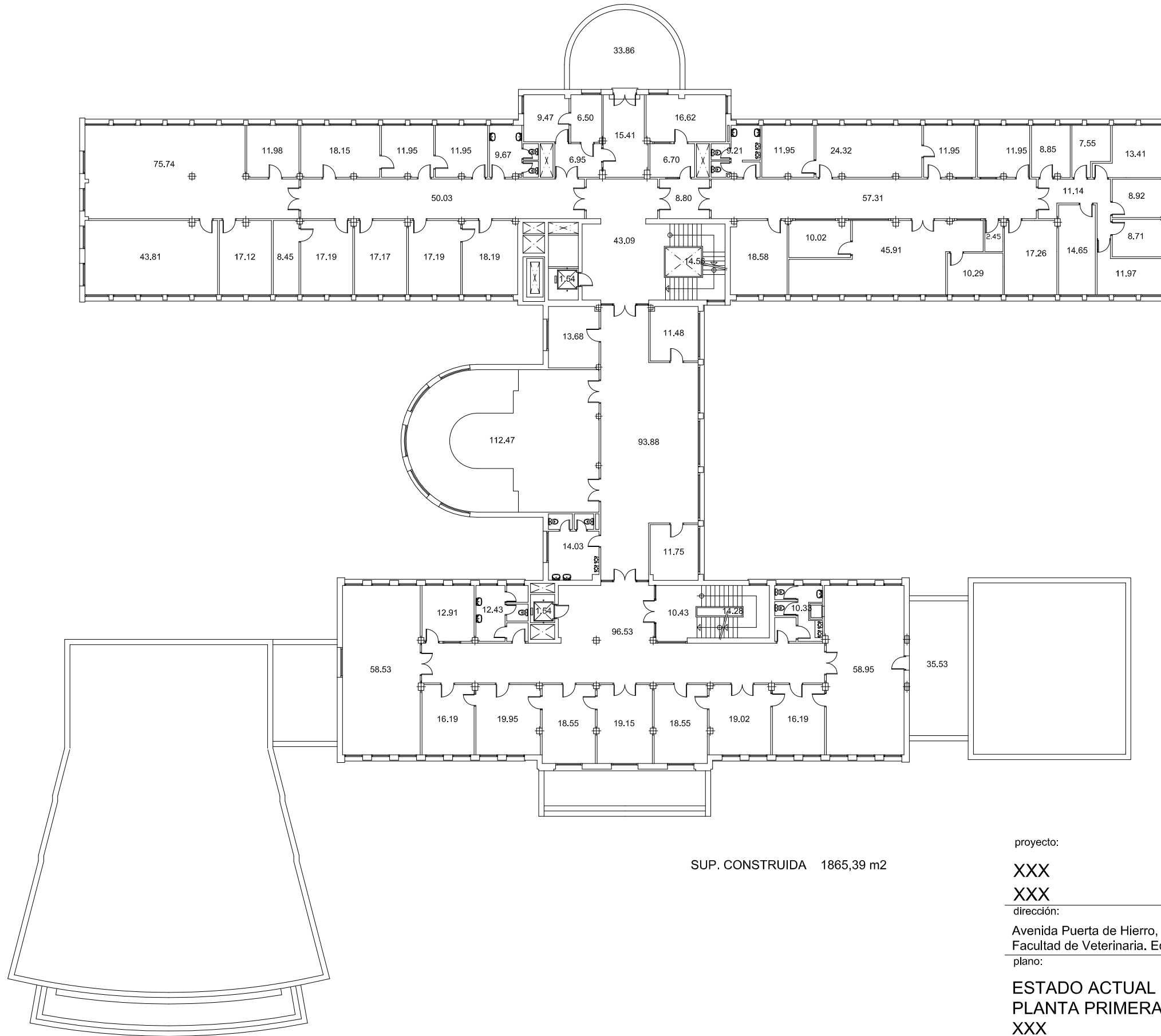
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plano:

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PLANTA PRIMERA

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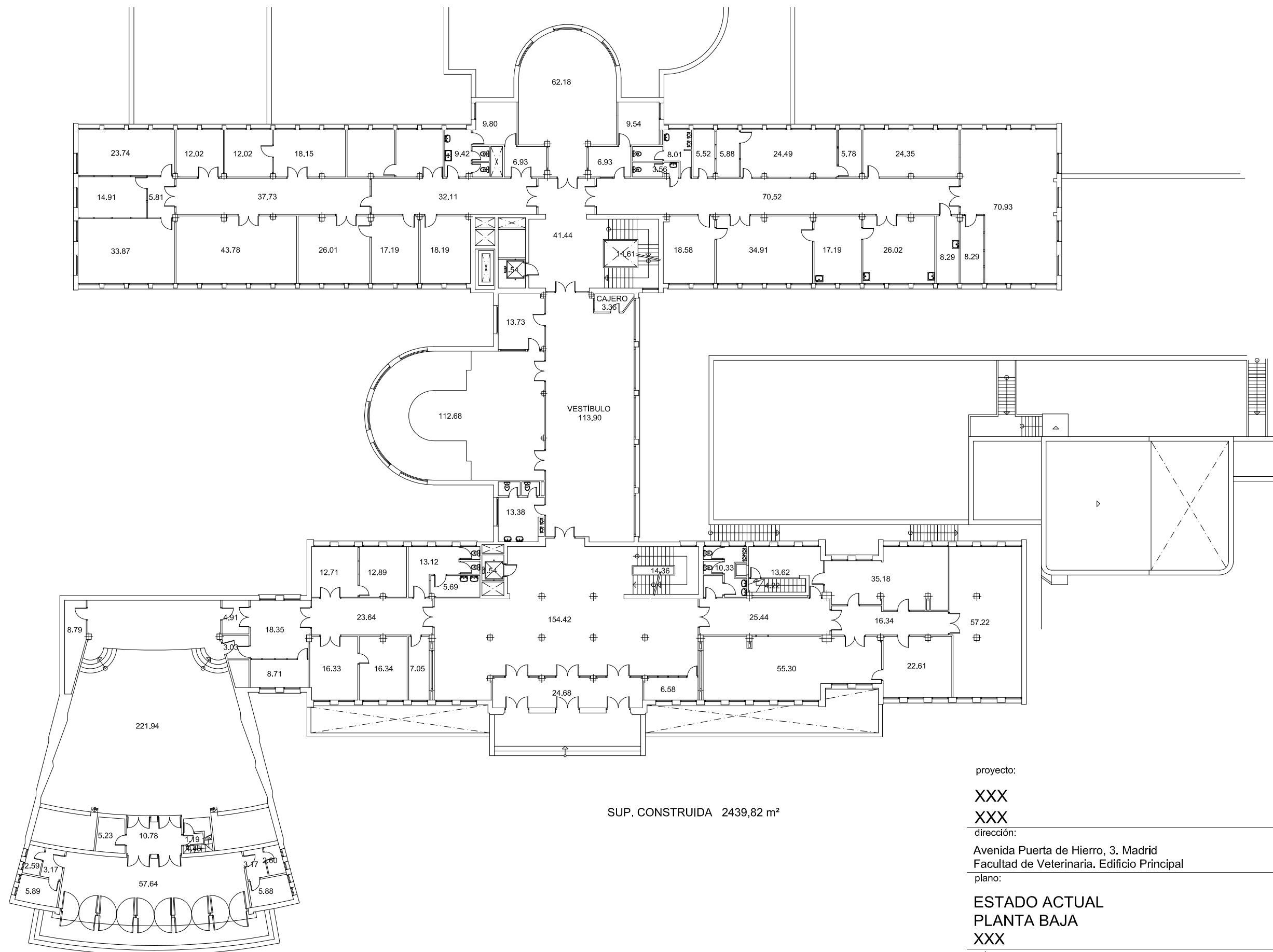
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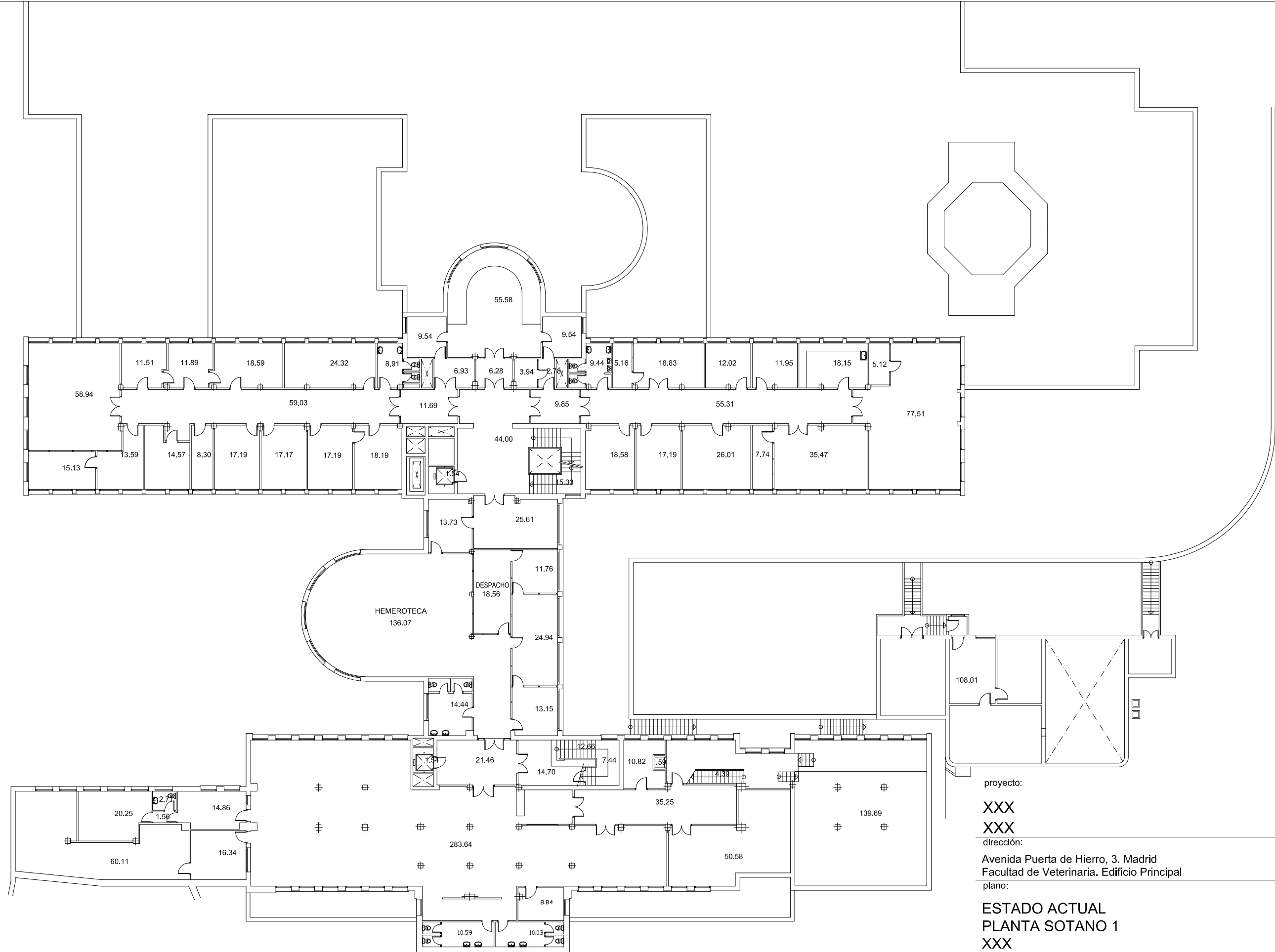
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Facultad de Veterinaria. Edificio Principal

plano:

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PLANTA SOTANO 1

XXX

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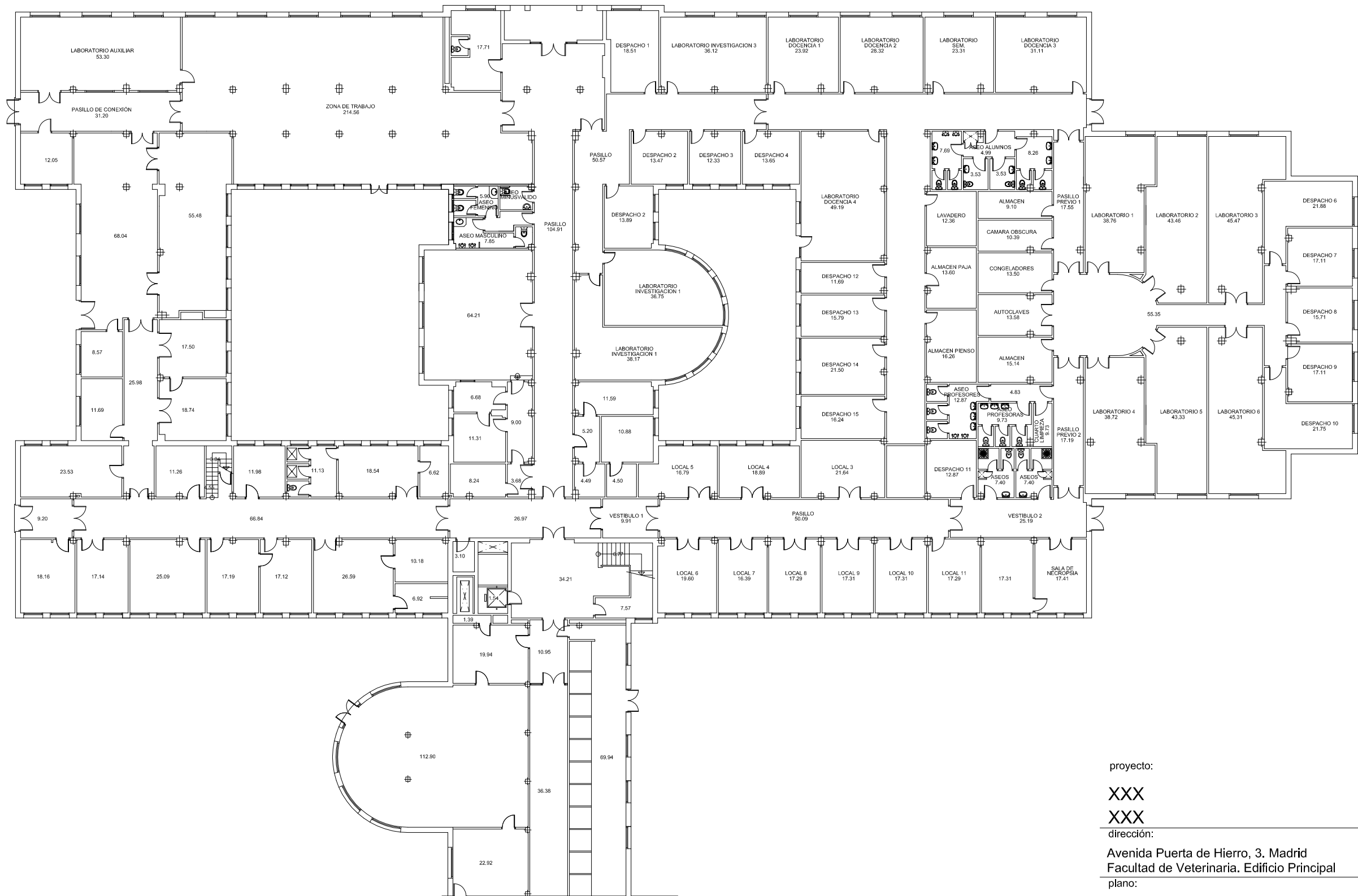
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GALERIA DE INSTALACIONES

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proyecto:

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Facultad de Veterinaria. Edificio Principal

plano:

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PLANTA SOTANO 3

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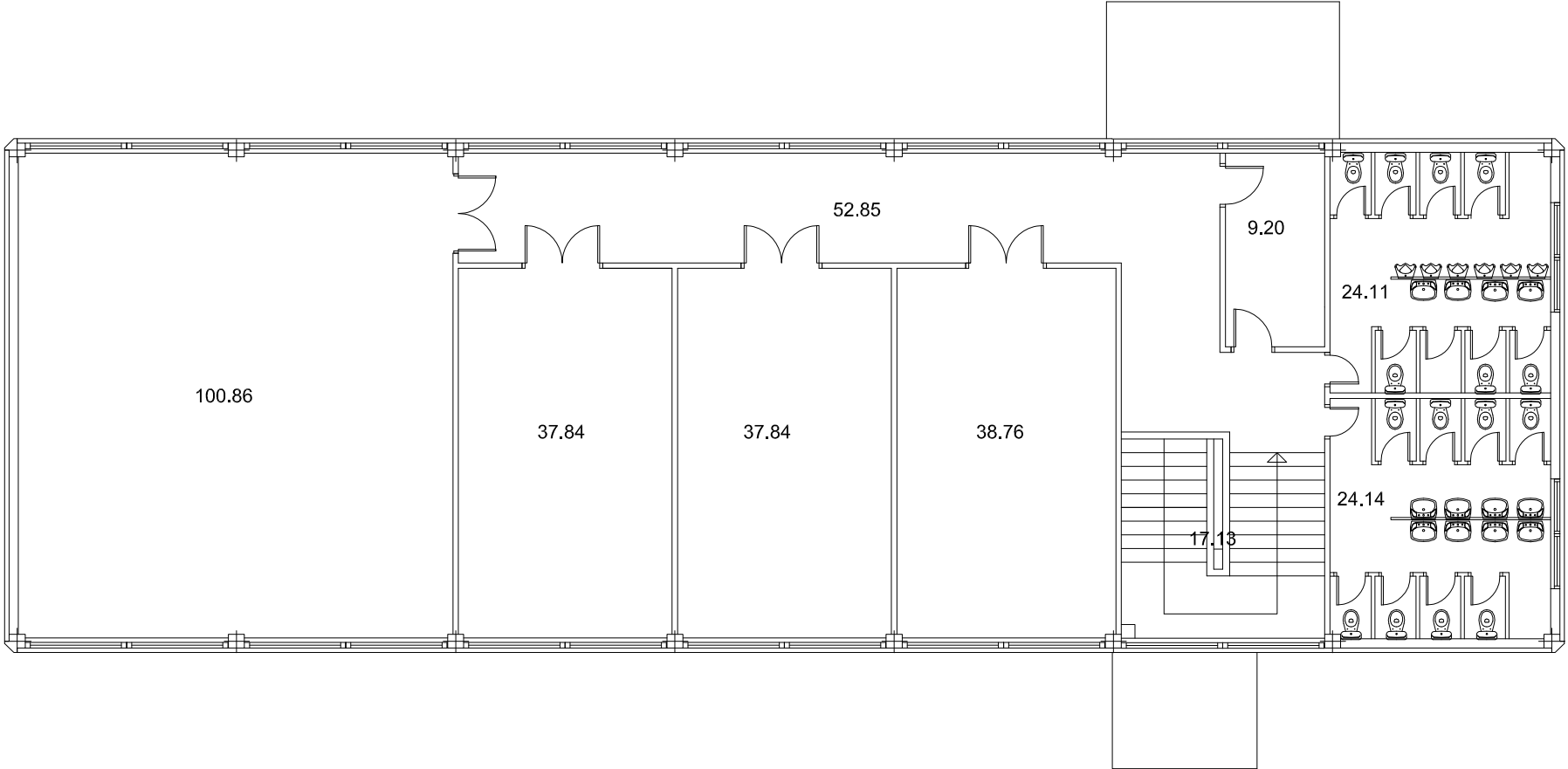




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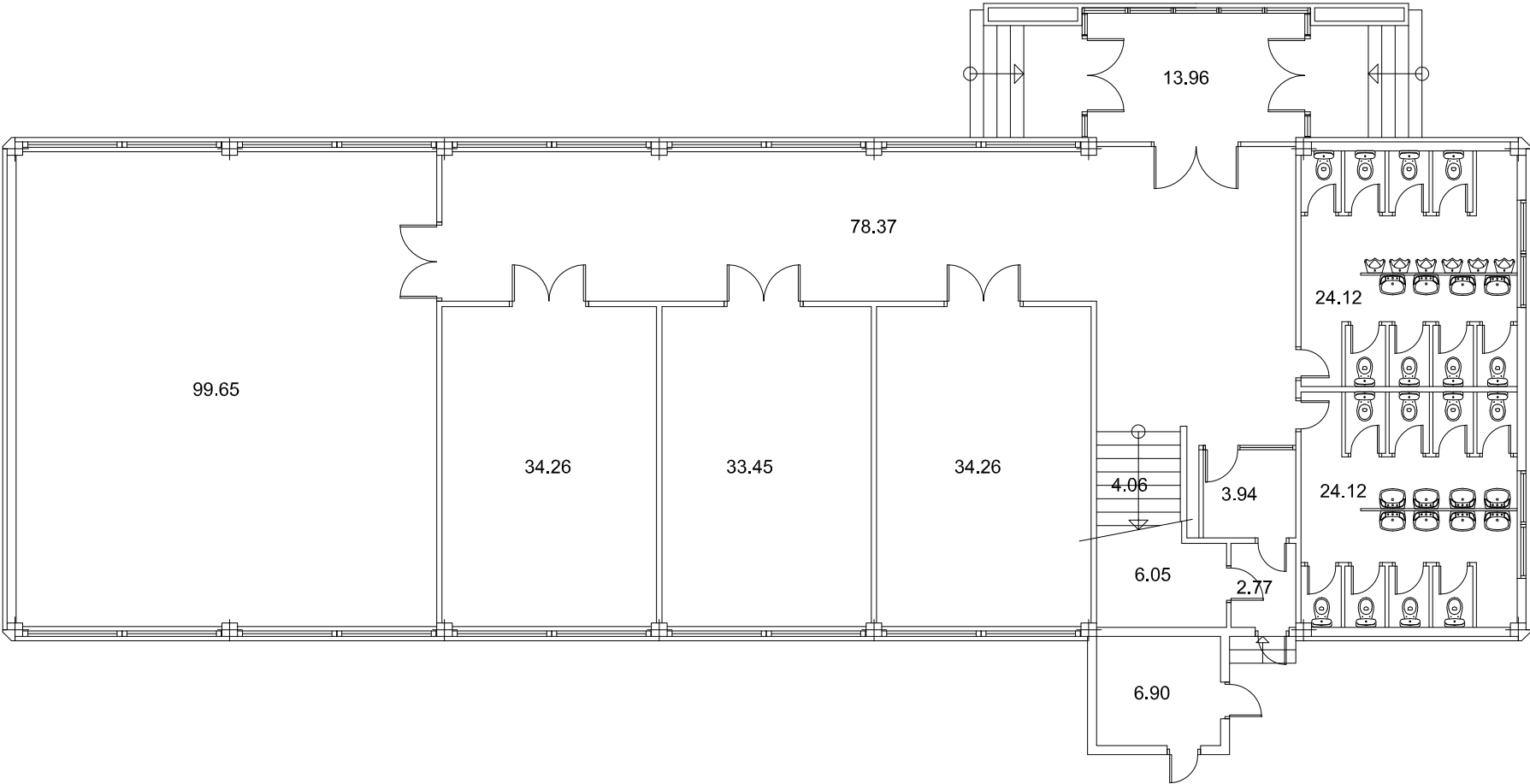
FACULTAD DE VETERINARIA

Building-A



Sup. Construida 384,15 m²

UNIVERSIDAD COMPLUTENSE MADRID			
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO AULARIO A	PLANTA PRIMERA
PLANO		FECHA ABRIL 2008	PLANO N. 01
PROYECTO NUMERO (1.1.13.8) 61 0000		EL ARQUITECTO	
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		ESCALA	
		DELINEANTE	



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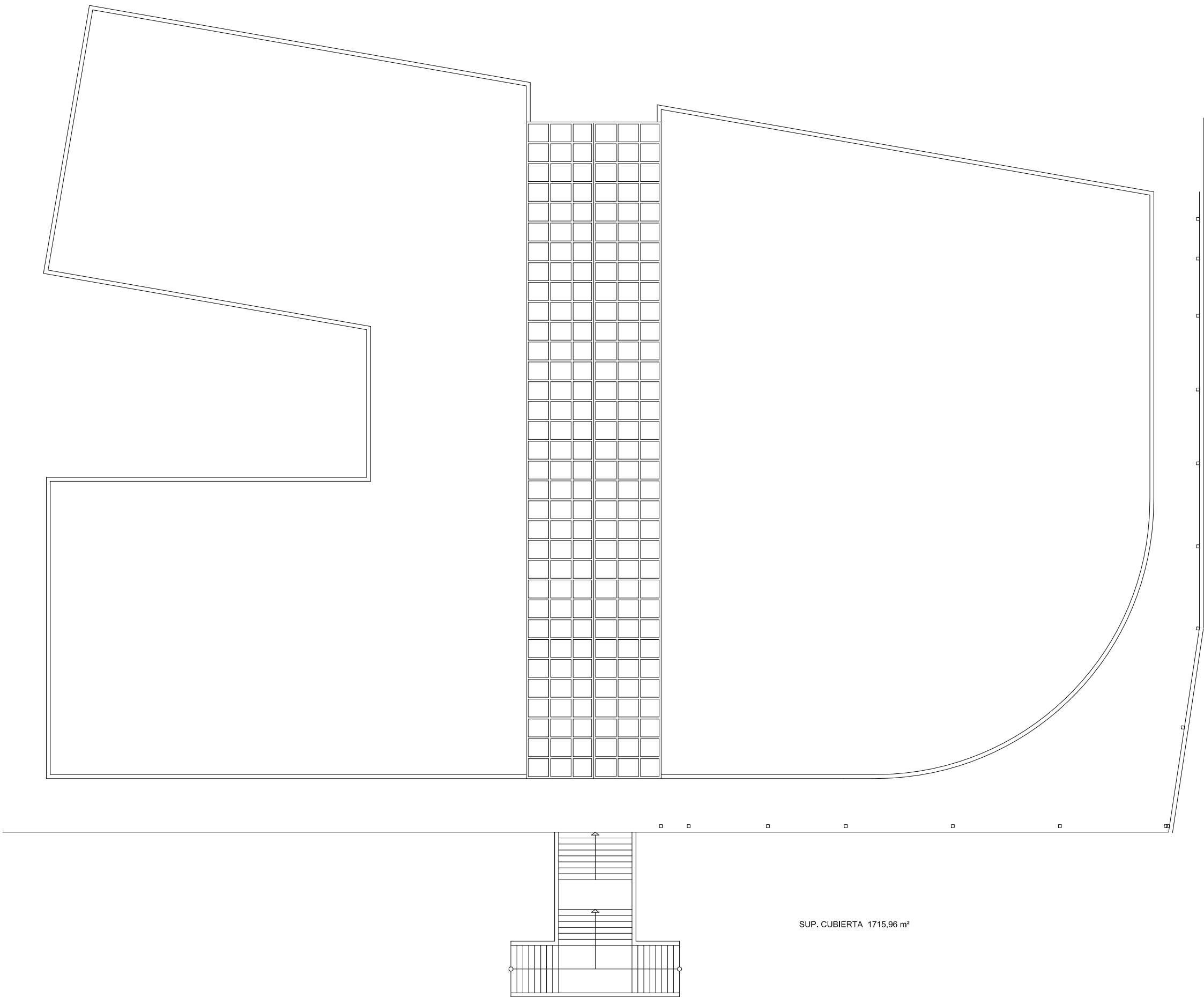
UNIVERSIDAD COMPLUTENSE MADRID			
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO AULARIO A	PLANTA BAJA
PLANO		FECHA ABRIL 2008	PLANO N. 00
PROYECTO NUMERO (1.1.13.8) 61 0000		EL ARQUITECTO	
CODIGO + NUMERO		XXXXX	
		ESCALA	
		DELINEANTE	



UNIVERSIDAD COMPLUTENSE
MADRID

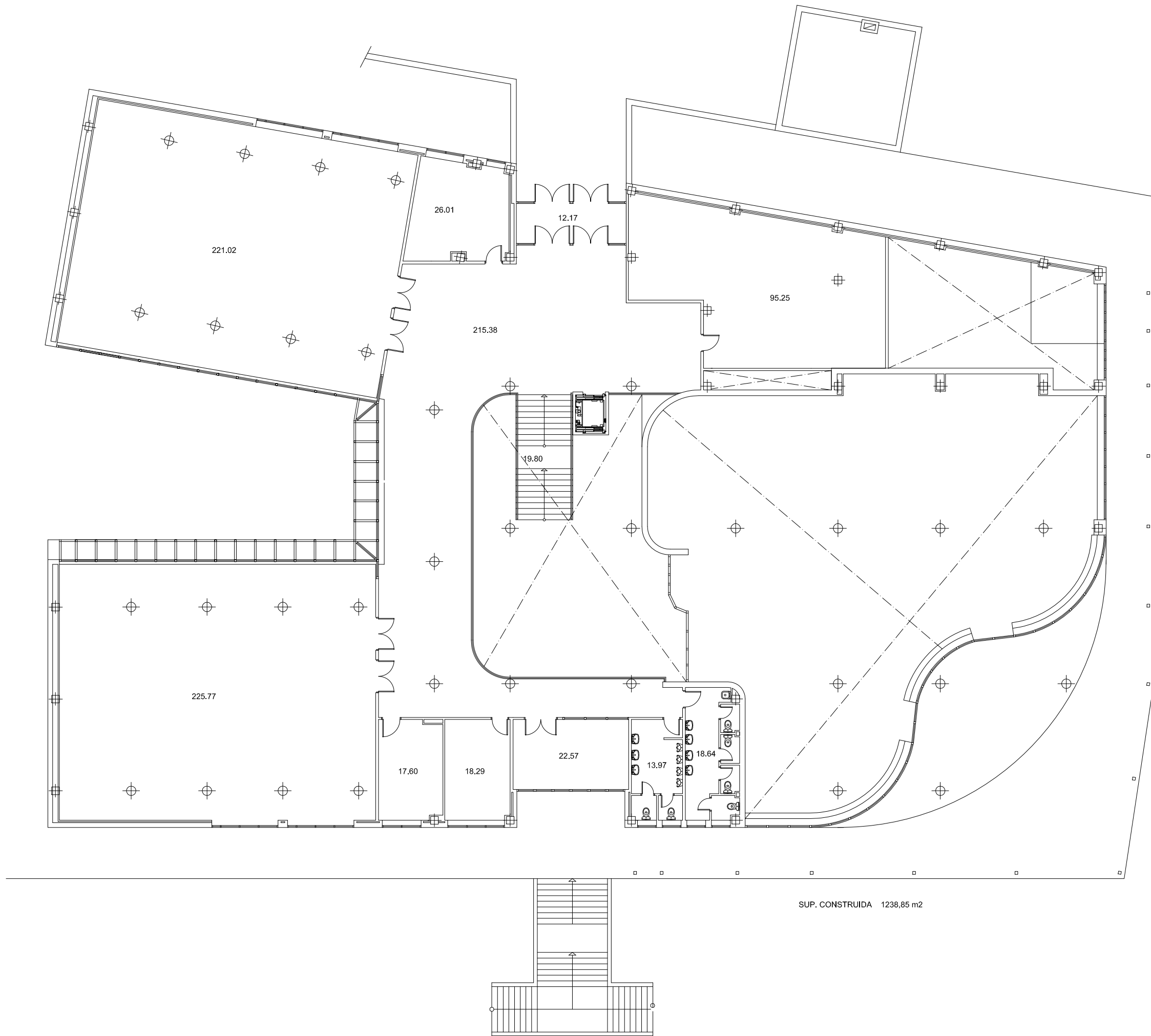
FACULTAD DE VETERINARIA

Building-B



proyecto:
XXX
XXX
dirección:
Avenida Puerta de Hierro, 3. Madrid
Facultad de Veterinaria. Aulario B y Cafetería
plano:
ESTADO ACTUAL
PLANTA CUBIERTA
XXX
autor:

código de proyecto - número
61 XXX
FEBRERO 2012
XXX
sustituye a plano anterior
SI ☐ fecha:
NO ☒
escala 1:200



proyecto:

XXX

XXX

dirección:

Avenida Puerta de Hierro, 3. Madrid
Facultad de Veterinaria. Aulario B y Cafetería

plano:

ESTADO ACTUAL
PLANTA PRIMERA
XXX

autor:

Antonio J. Letón Carrasco, arquitecto

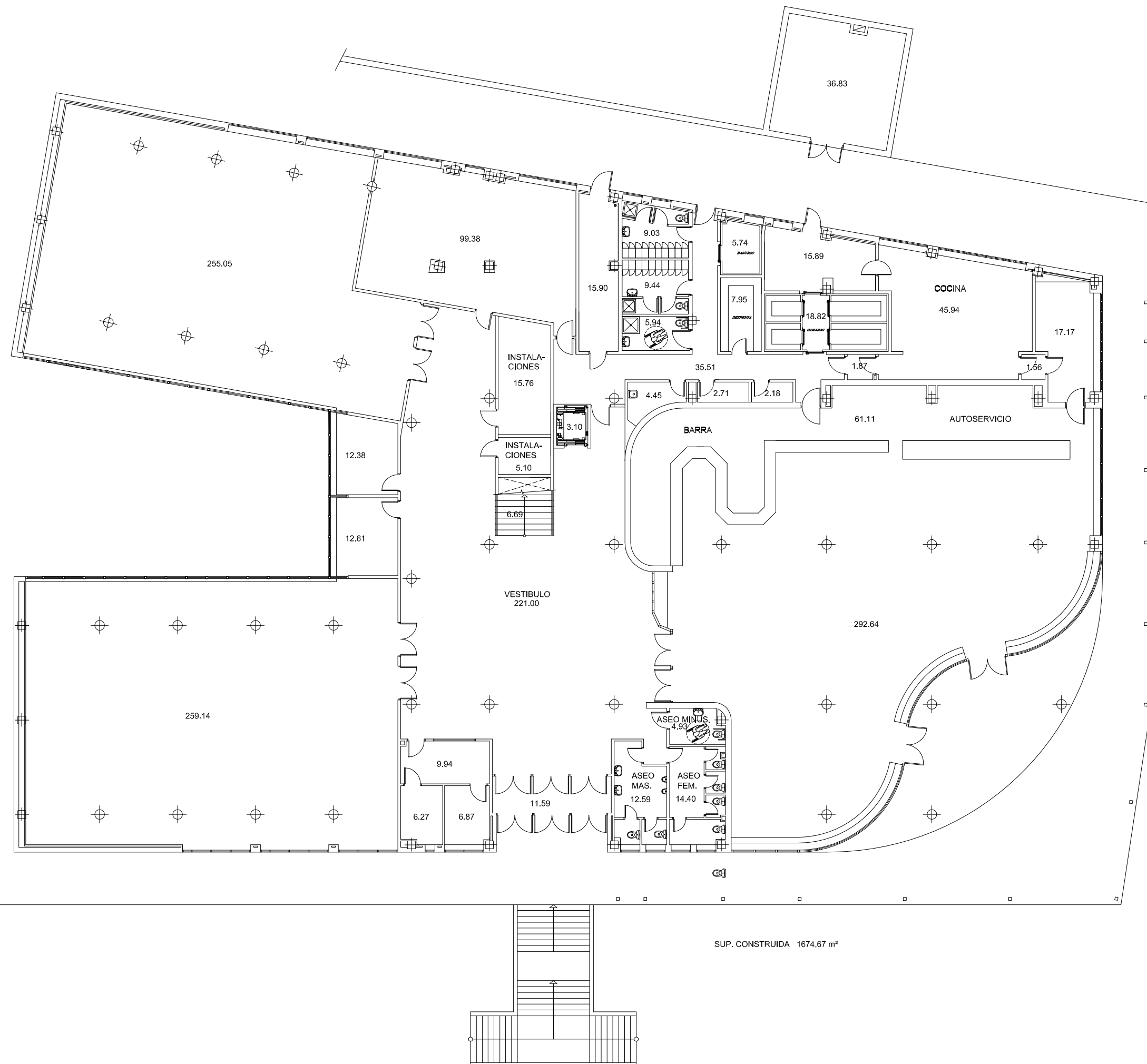
Vicegerencia de Gestión y Organización - Dirección de Obras y Mantenimiento

código de proyecto - número
61 XXX
FEBRERO 2012
XXX
sustituye a plano anterior
SI ☐ fecha:
NO ☒
escala 1:200

1

UNIVERSIDAD COMPLUTENSE DE MADRID





proyecto:

XXX

XXX

dirección:

Avenida Puerta de Hierro, 3. Madrid
Facultad de Veterinaria. Aulario B y Cafeteria

plano:

ESTADO ACTUAL

PLANTA BAJA

XXX

autor:

Antonio J. Letón Carrasco. arquitecto

Vicegerencia de Gestión y Organización - Dirección de Obras y Mantenimiento

Código de proyecto - número
 51 XXX
 FEBRERO 2012
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 Sustituye a plano anterior
☐ fecha:
☒
 escala 1:200

B

UNIVERSIDAD COMPLUTENSE DE MADRID

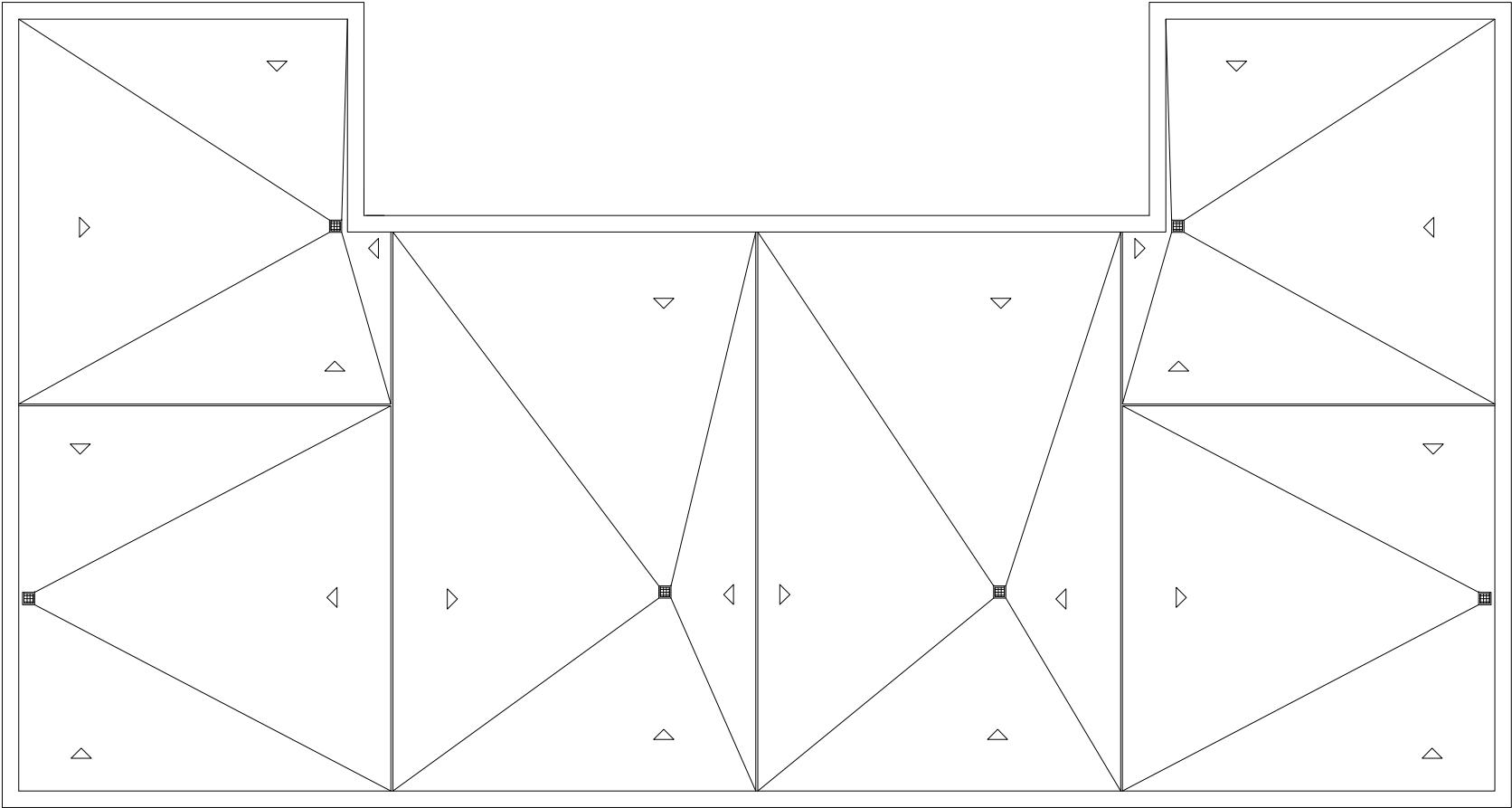




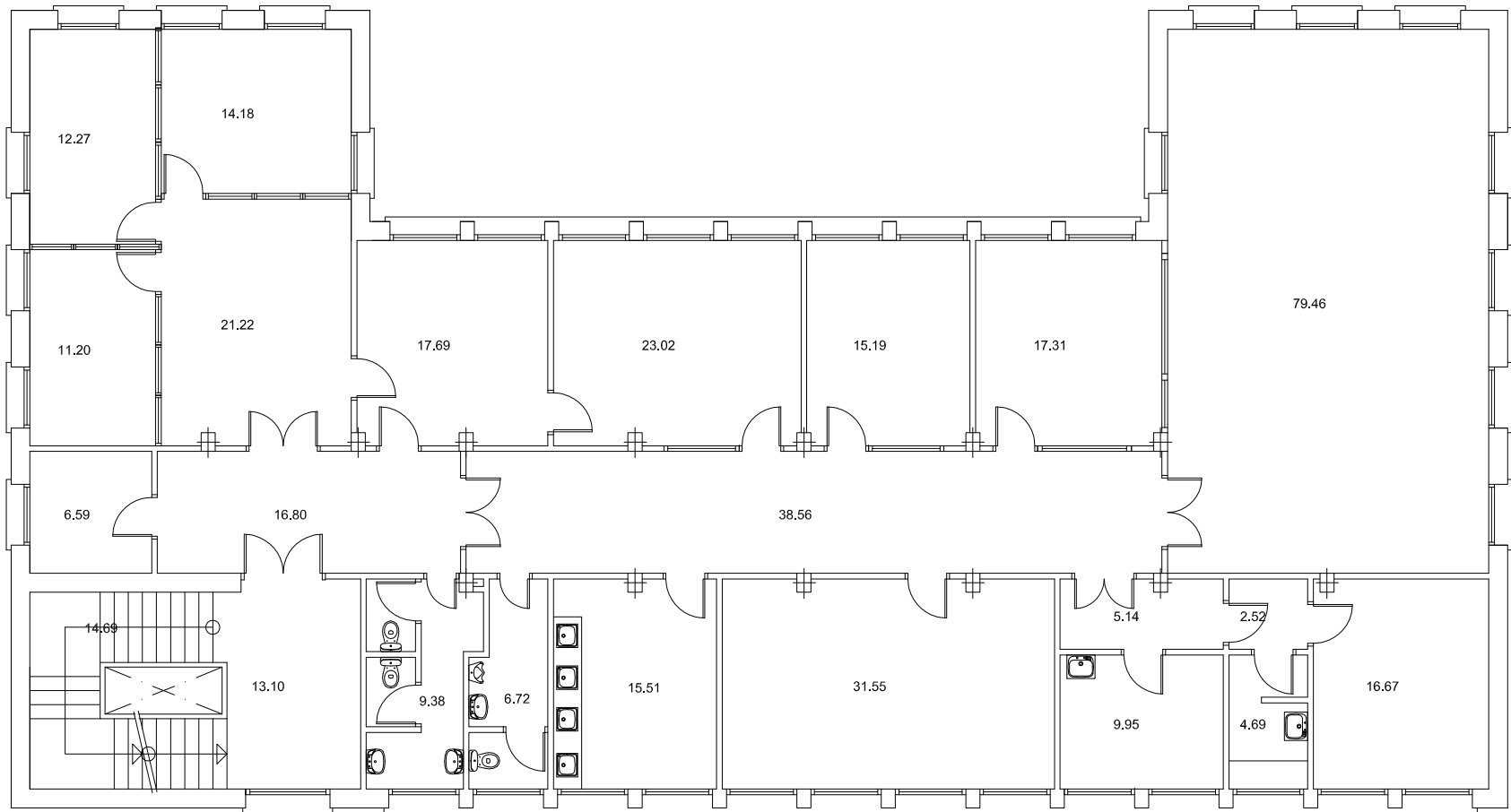
UNIVERSIDAD COMPLUTENSE
MADRID

FACULTAD DE VETERINARIA

Anatomy building

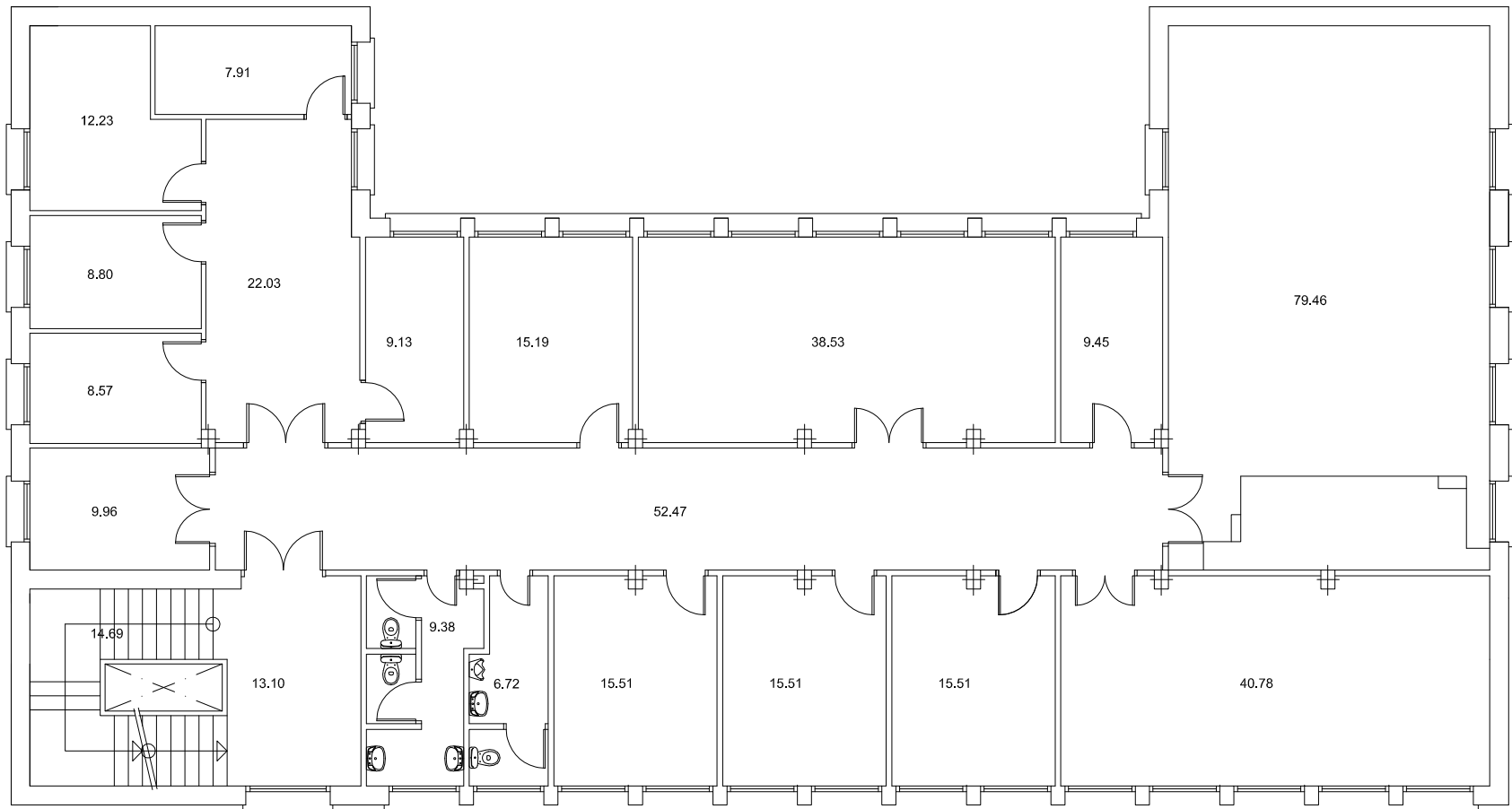


UNIVERSIDAD COMPLUTENSE MADRID			
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO ANATOMIA	PLANTA TERCERA
PLANO		FECHA ABRIL 2008	PLANO N. 03
PROYECTO NUMERO (1.1.13.2) 61 0000		EL ARQUITECTO	
CODIGO + NUMERO		XXXXX	
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		DELINEANTE	



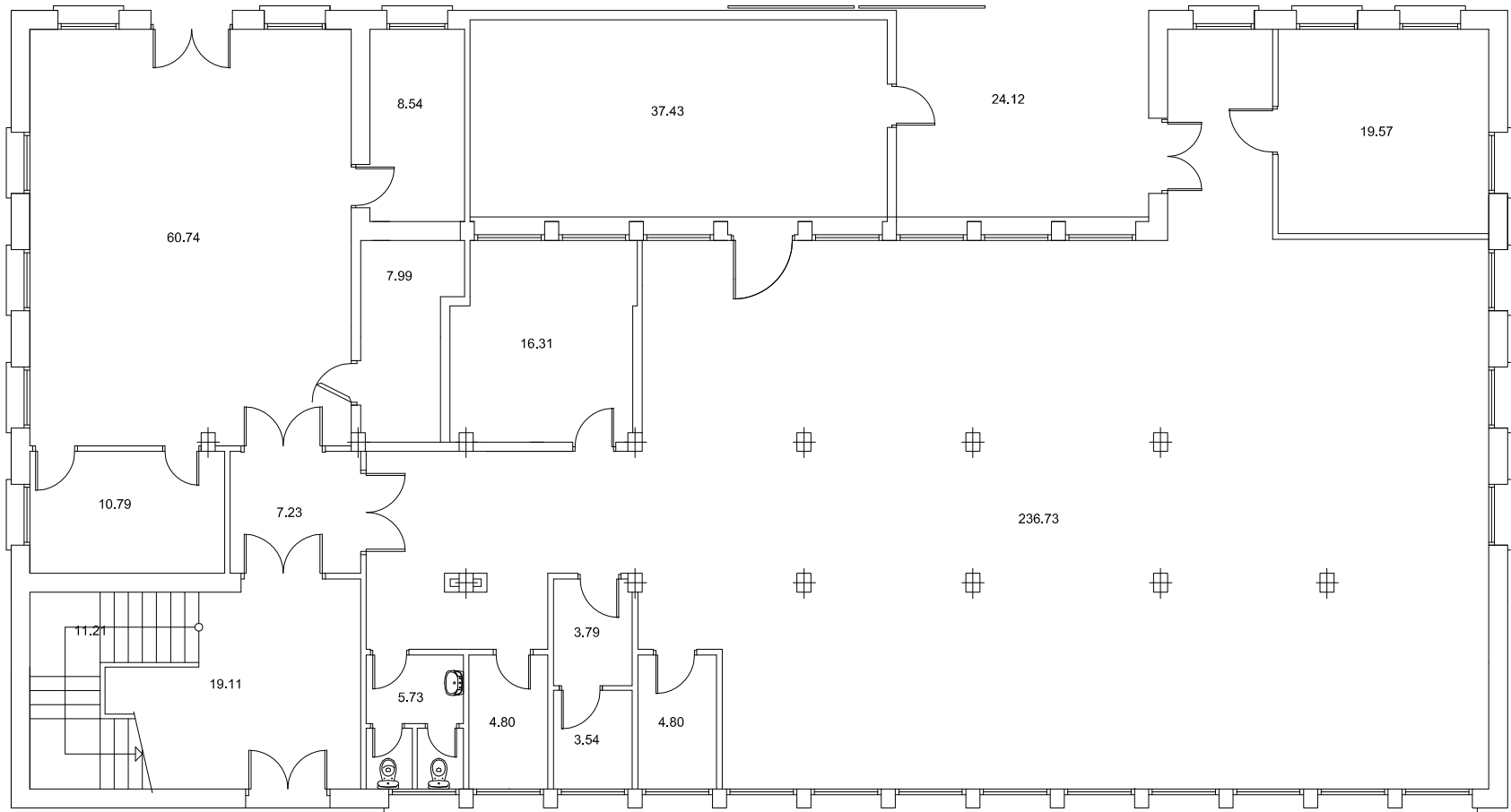
SUP. CONSTRUIDA 467,71 m²

UNIVERSIDAD COMPLUTENSE MADRID			
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO ANATOMIA	PLANTA SEGUNDA
PLANO		FECHA ABRIL 2008	PLANO N. 02
PROYECTO NUMERO (1.1.13.2) 61 0000		EL ARQUITECTO	
CODIGO + NUMERO		XXXXX	
		ESCALA	
		DELINEANTE	



SUP. CONSTRUIDA 467,6 m²

UNIVERSIDAD COMPLUTENSE MADRID			
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO ANATOMIA	PLANTA PRIMERA
PLANO		FECHA ABRIL 2008	PLANO N. 01
PROYECTO NUMERO (1.1.13.2) 61 0000		ESCALA	
CODIGO + NUMERO		DELINEANTE	
EL ARQUITECTO XXXXX			



SUP. CONSTRUIDA 518,11 m²

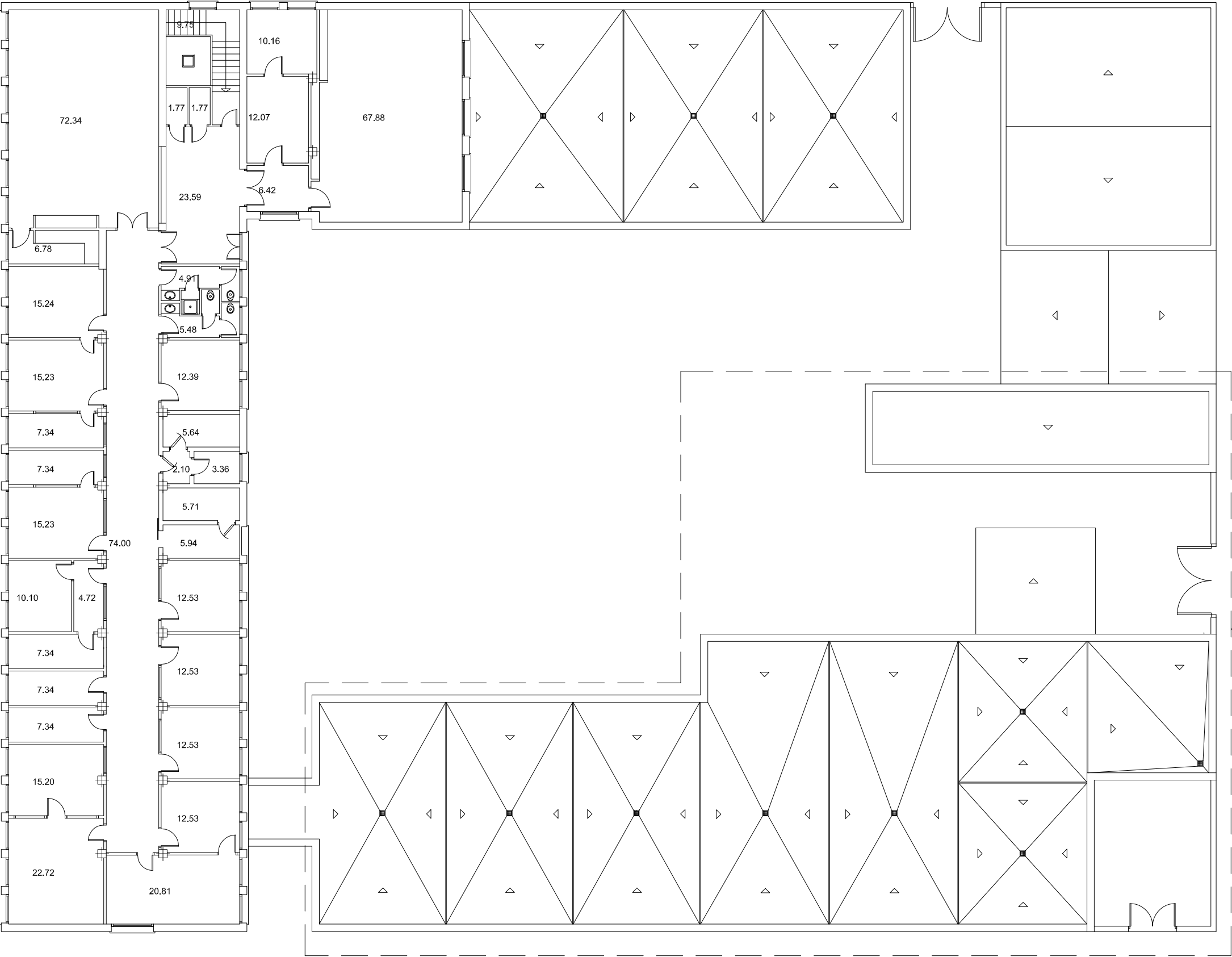
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VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO ANATOMIA	PLANTA BAJA
PLANO		FECHA ABRIL 2008	PLANO N. 00
PROYECTO NUMERO (1.1.13.2) 61 0000		EL ARQUITECTO	
CODIGO + NUMERO		XXXXX	
		ESCALA	
		DELINEANTE	



UNIVERSIDAD COMPLUTENSE
MADRID

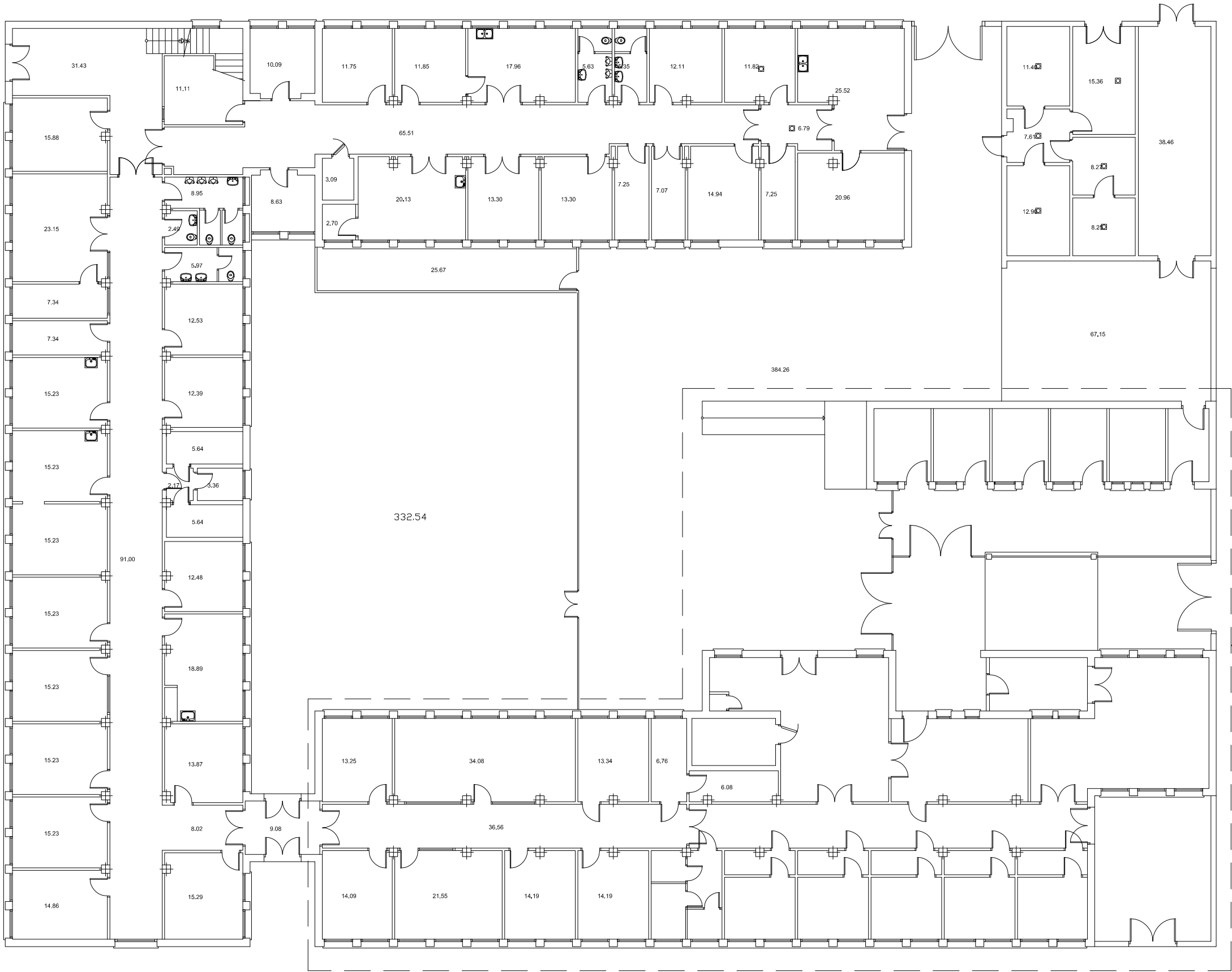
FACULTAD DE VETERINARIA

Animal health building



SUP. CONSTRUIDA 2548,19 m2

UNIVERSIDAD COMPLUTENSE MADRID			
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION		PROYECTO	
DELINEACION		XXXXXX	
CAMPUS	CENTRO	EDIFICIO	PLANTA
MONCLOA	FACULTAD DE VETERINARIA	PATOLOGIA	PRIMERA
PLANO		FECHA	PLANO N.
		ABRIL 2008	
PROYECTO NUMERO		EL ARQUITECTO	01
(1.1.13.6) 61 0000		XXXXX	
CODIGO + NUMERO		DELINTEANTE	



SUP. CONSTRUIDA 2544,41 m²

SEMIDERRUIDO POR INCENDIO

UNIVERSIDAD COMPLUTENSE MADRID
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS
DIRECCION DE OBRAS Y MANTENIMIENTO

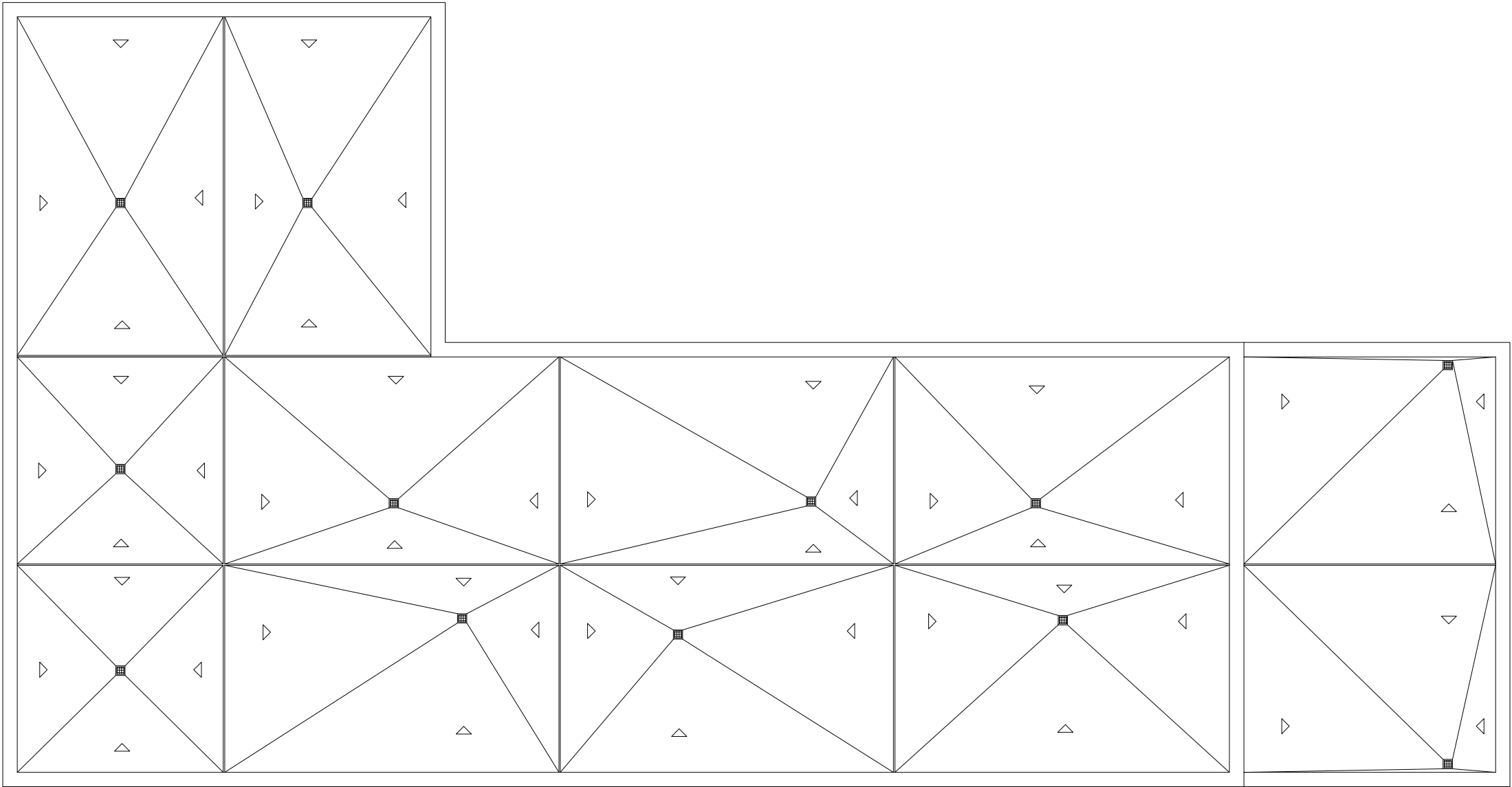
SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO PATOLOGIA INFECCIOSA	PLANTA BAJA
PLANO		FECHA ABRIL 2008	PLANO N. 00
PROYECTO NUMERO (1.1.13.6) 61 0000 CODIGO + NUMERO		EL ARQUITECTO XXXXX	
		DELINEANTE	



UNIVERSIDAD COMPLUTENSE
MADRID

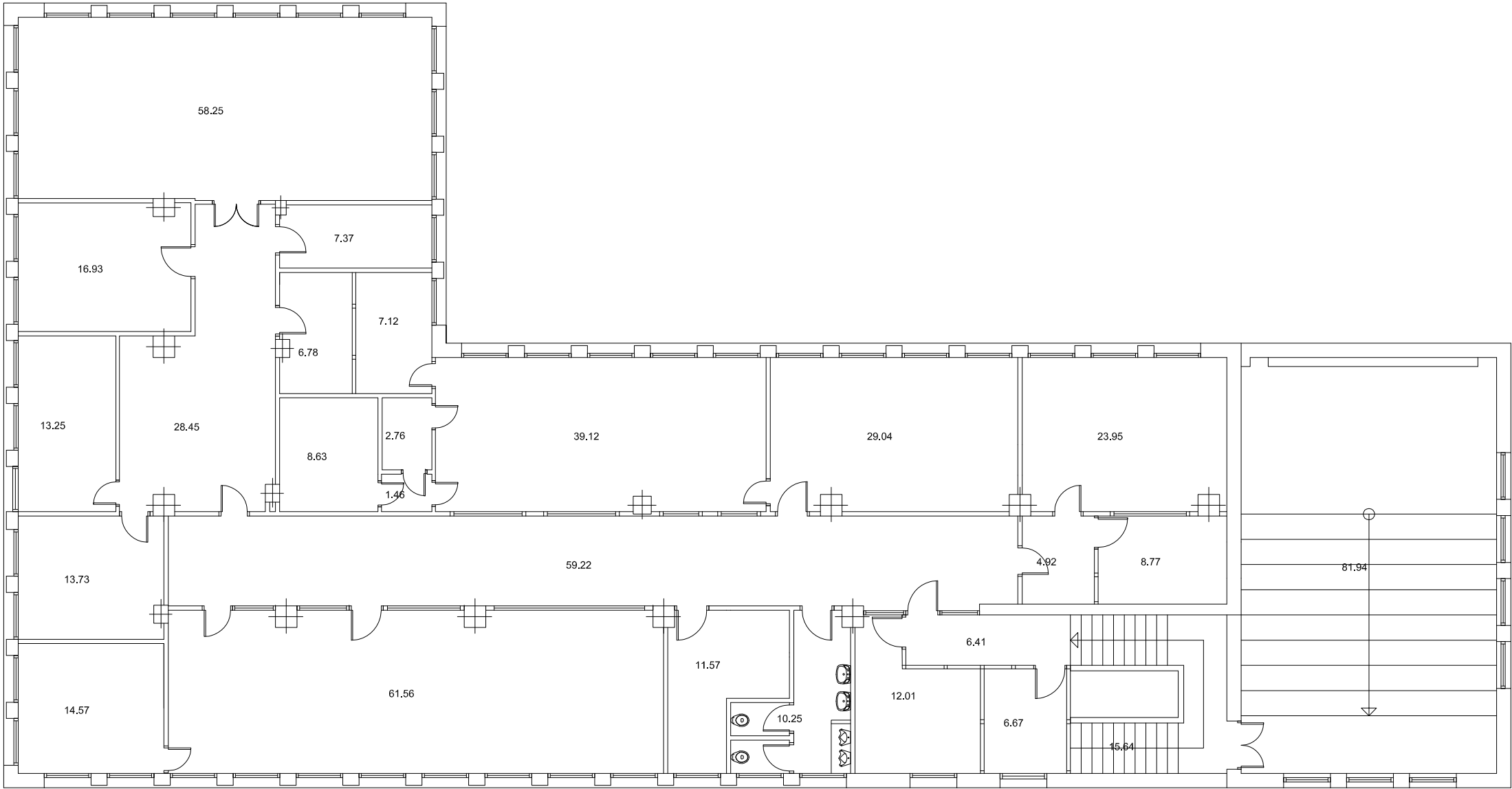
FACULTAD DE VETERINARIA

Food science and technology building



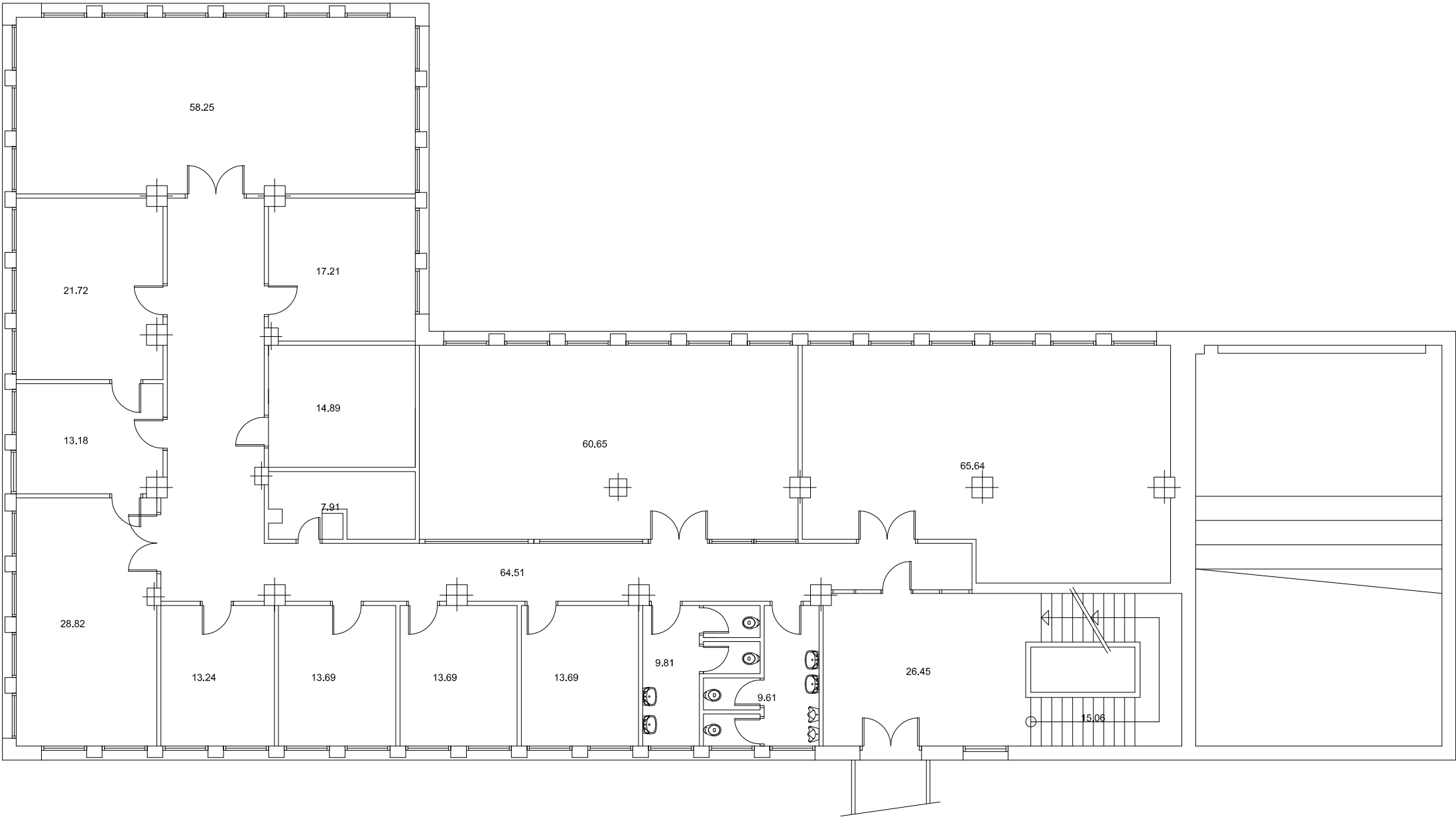
UNIVERSIDAD COMPLUTENSE MADRID
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS
DIRECCION DE OBRAS Y MANTENIMIENTO

SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO INDUSTRIA	PLANTA CUBIERTA
PLANO		FECHA ABRIL 2008	PLANO N. 02
PROYECTO NUMERO (1.1.13.5) 61 0000 CODIGO + NUMERO		ESCALA	
EL ARQUITECTO XXXXX		DELINEANTE	



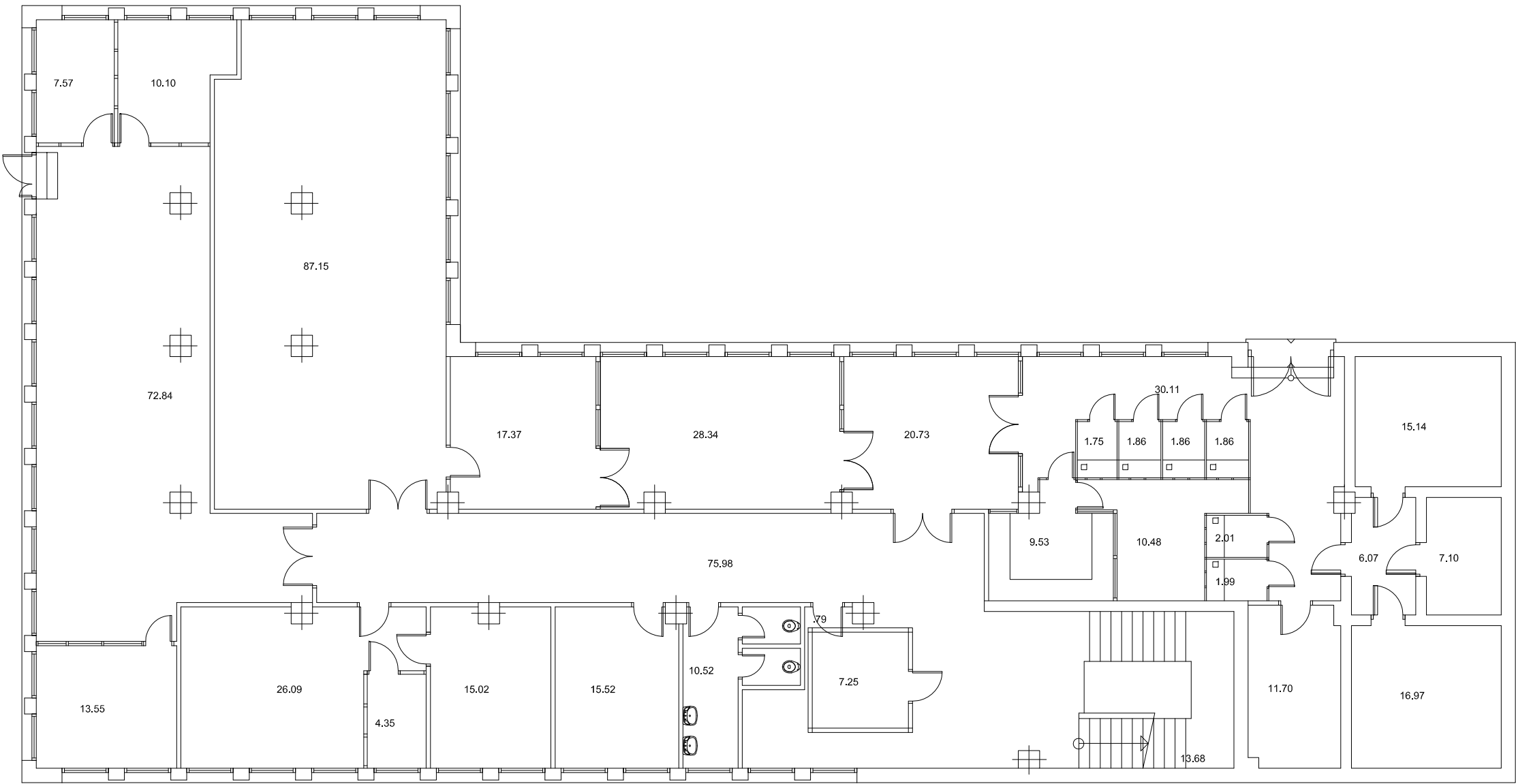
SUP. CONSTRUIDA 633,7 m2

UNIVERSIDAD COMPLUTENSE MADRID			
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO INDUSTRIA	PLANTA PRIMERA
PLANO		FECHA ABRIL 2008	PLANO N. 01
PROYECTO NUMERO (1.1.13.5) 61 0000		ESCALA	
CODIGO + NUMERO		DELINEANTE	
EL ARQUITECTO XXXXX			



SUP. CONSTRUIDA 633,7 m²

UNIVERSIDAD COMPLUTENSE MADRID			
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO INDUSTRIA	PLANTA BAJA
PLANO		FECHA ABRIL 2008	PLANO N. 00
PROYECTO NUMERO (1.1.13.5) 61 0000		ESCALA	
CODIGO + NUMERO		DELINEANTE	
EL ARQUITECTO XXXXX			



SUP. CONSTRUIDA 633,7 m²

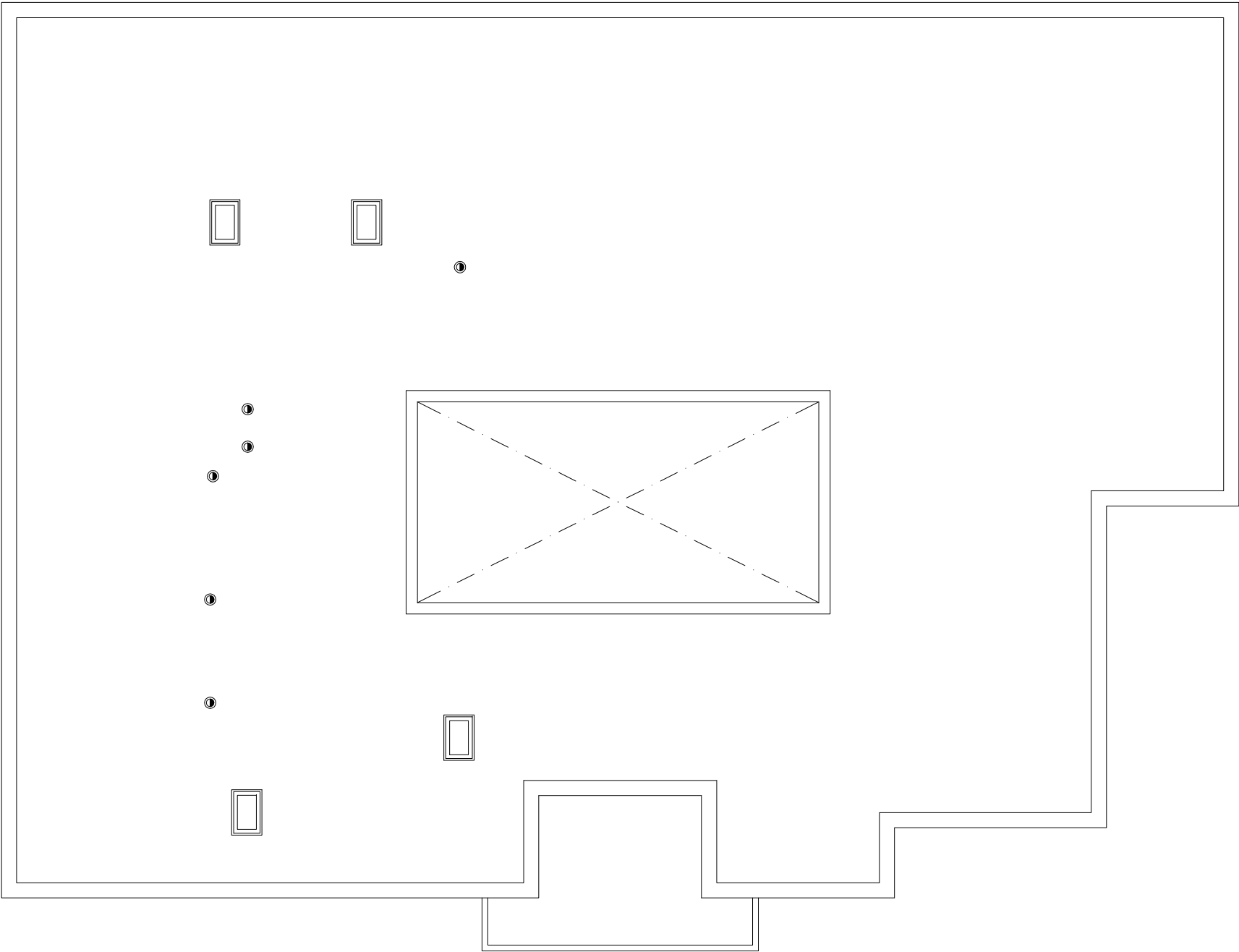
UNIVERSIDAD COMPLUTENSE MADRID			
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO INDUSTRIA	PLANTA SOTANO 1
PLANO		FECHA ABRIL 2008	PLANO N. S1
PROYECTO NUMERO (1.1.13.5) 61 0000		ESCALA	
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EL ARQUITECTO XXXXX			



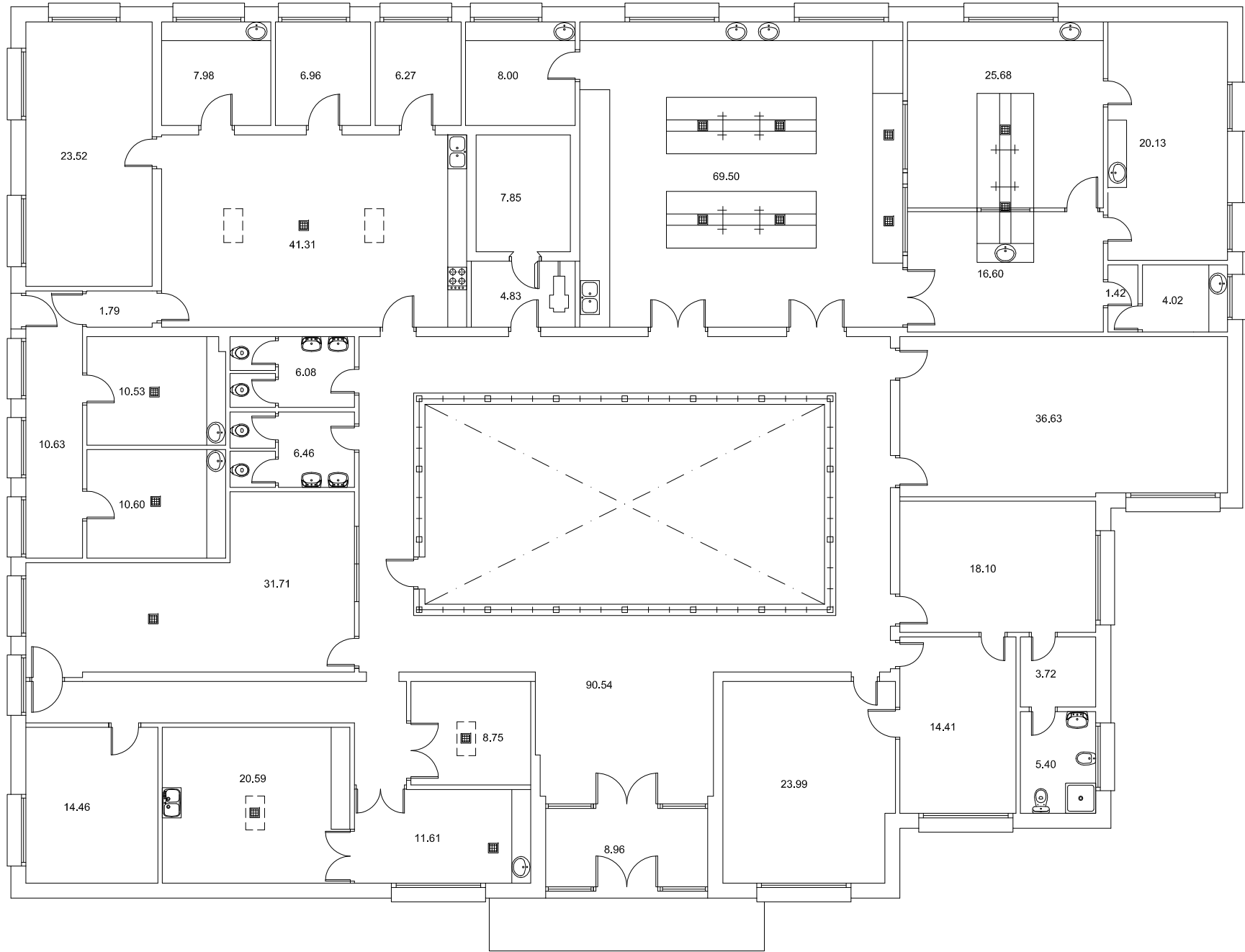
UNIVERSIDAD COMPLUTENSE
MADRID

FACULTAD DE VETERINARIA

Animal physiology building



UNIVERSIDAD COMPLUTENSE MADRID			
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION		PROYECTO	
DELINEACION		XXXXXX	
CAMPUS	CENTRO	EDIFICIO	PLANTA
MONCLOA	FACULTAD DE VETERINARIA	ANATOMIA	CUBIERTA
PLANO		FECHA	PLANO N.
		ABRIL 2008	
		ESCALA	
PROYECTO NUMERO		EL ARQUITECTO	
(1.1.13.2) 61 0000		XXXXX	
CODIGO + NUMERO			



UNIVERSIDAD COMPLUTENSE MADRID				
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS				
DIRECCION DE OBRAS Y MANTENIMIENTO				
SECCION		PROYECTO		
DELINEACION		XXXXXX		
CAMPUS	CENTRO		EDIFICIO	PLANTA
MONCLOA	FACULTAD DE VETERINARIA		FISIOLOGIA	BAJA
PLANO			FECHA	PLANO N. 00
			ABRIL 2008	
			ESCALA	
PROYECTO NUMERO		EL ARQUITECTO		
(1.1.13.3) 61 0000		XXXXX		
CODIGO + NUMERO				



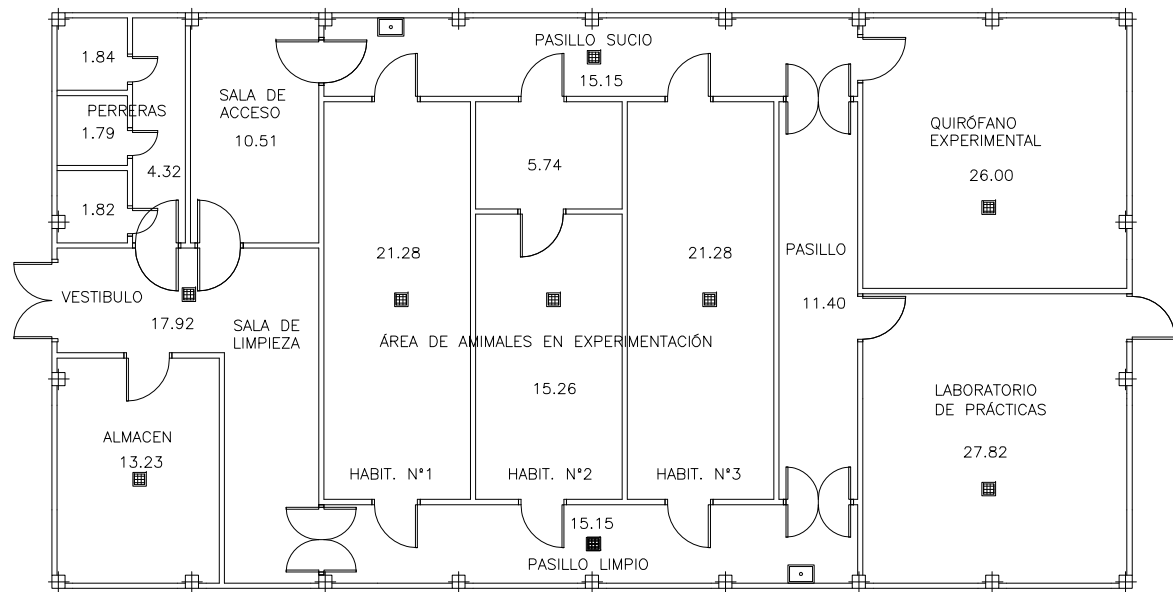
UNIVERSIDAD COMPLUTENSE
MADRID

FACULTAD DE VETERINARIA

Animalarium of the Department of Animal physiology

△
▽

UNIVERSIDAD COMPLUTENSE MADRID			
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA		EDIFICIO ANIMALARIO METABOLISMO
PLANO			PLANTA CUBIERTA
PROYECTO NUMERO (1.1.13.2) 61 0000		FECHA MARZO 2011	
CODIGO + NUMERO		ESCALA	
EL ARQUITECTO XXXXX		DELINEANTE	
PLANO N.			01



SUP. CONSTRUIDA 227,15 m²

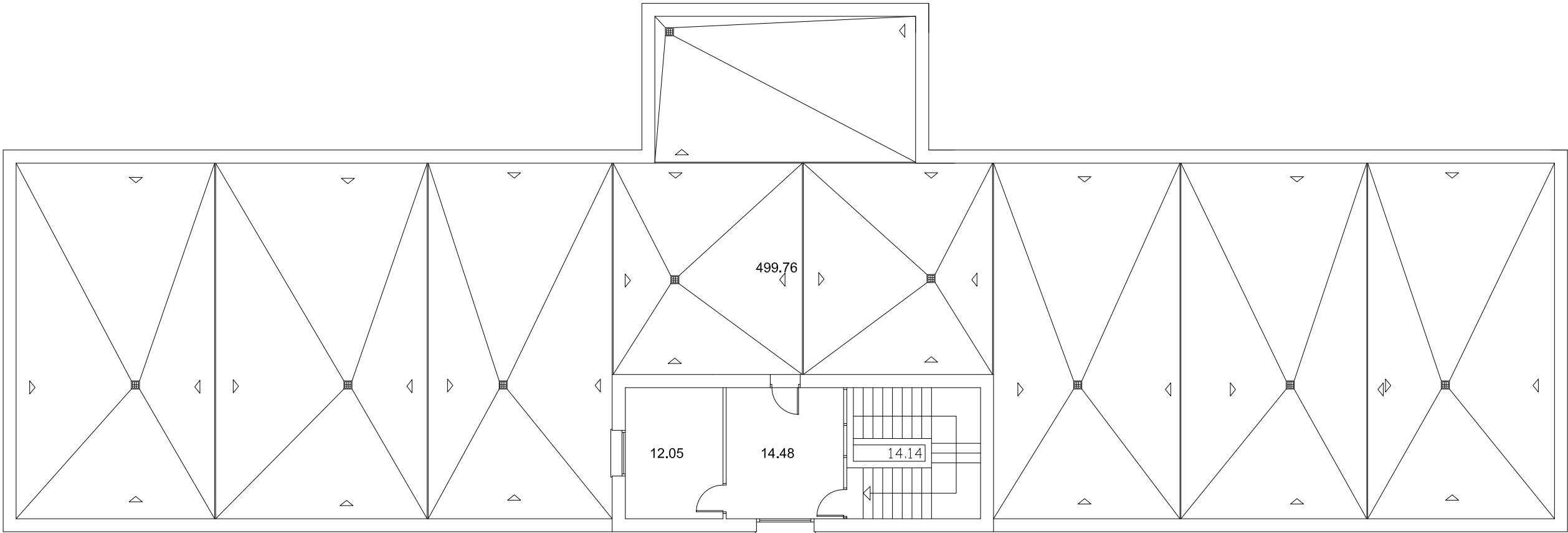
UNIVERSIDAD COMPLUTENSE MADRID				
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS				
DIRECCION DE OBRAS Y MANTENIMIENTO				
SECCION		PROYECTO		
DELINEACION		XXXXXXX		
CAMPUS	CENTRO		EDIFICIO	PLANTA
MONCLOA	FACULTAD DE VETERINARIA		ANIMALARIO METABOLISMO	BAJA
PLANO			FECHA	PLANO N. 00
			MARZO 2011	
			ESCALA	
PROYECTO NUMERO		EL ARQUITECTO		
(1.1.13.3) 61 0000		XXXXX		
CODIGO + NUMERO				



UNIVERSIDAD COMPLUTENSE
MADRID

FACULTAD DE VETERINARIA

Animal production building



SUP. CONSTRUIDA 601,2 m²

proyecto:

XXX

XXX

dirección:

Avenida Puerta de Hierro, 3. Madrid
Facultad de Veterinaria. Producción Animal. Zootecnia

plano:

ESTADO ACTUAL
PLANTA SEGUNDA
XXX

autor:

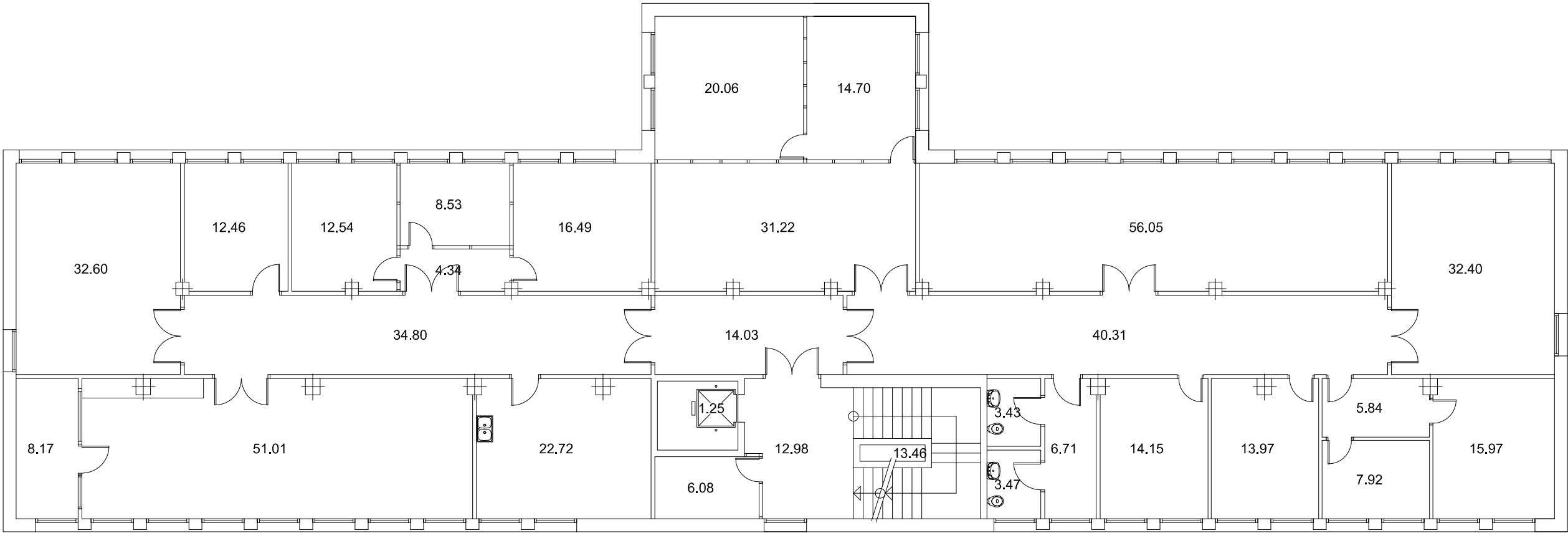
Antonio J. Letón Carrasco. arquitecto
Vicegerencia de Gestión y Organización - Dirección de Obras y Mantenimiento

UNIVERSIDAD COMPLUTENSE DE MADRID

código de proyecto - número
61 XXX
ENERO 2012
XXX
sustituye a plano anterior
SI ☐ fecha:
NO ☒
escala 1:100

2





SUP. CONSTRUIDA 601,2 m2

proyecto:

XXX

XXX

dirección:

Avenida Puerta de Hierro, 3. Madrid
Facultad de Veterinaria. Producción Animal. Zootecnia

plano:

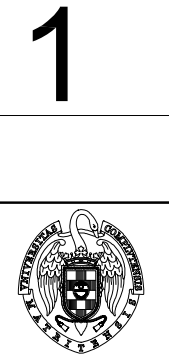
ESTADO ACTUAL
PLANTA PRIMERA
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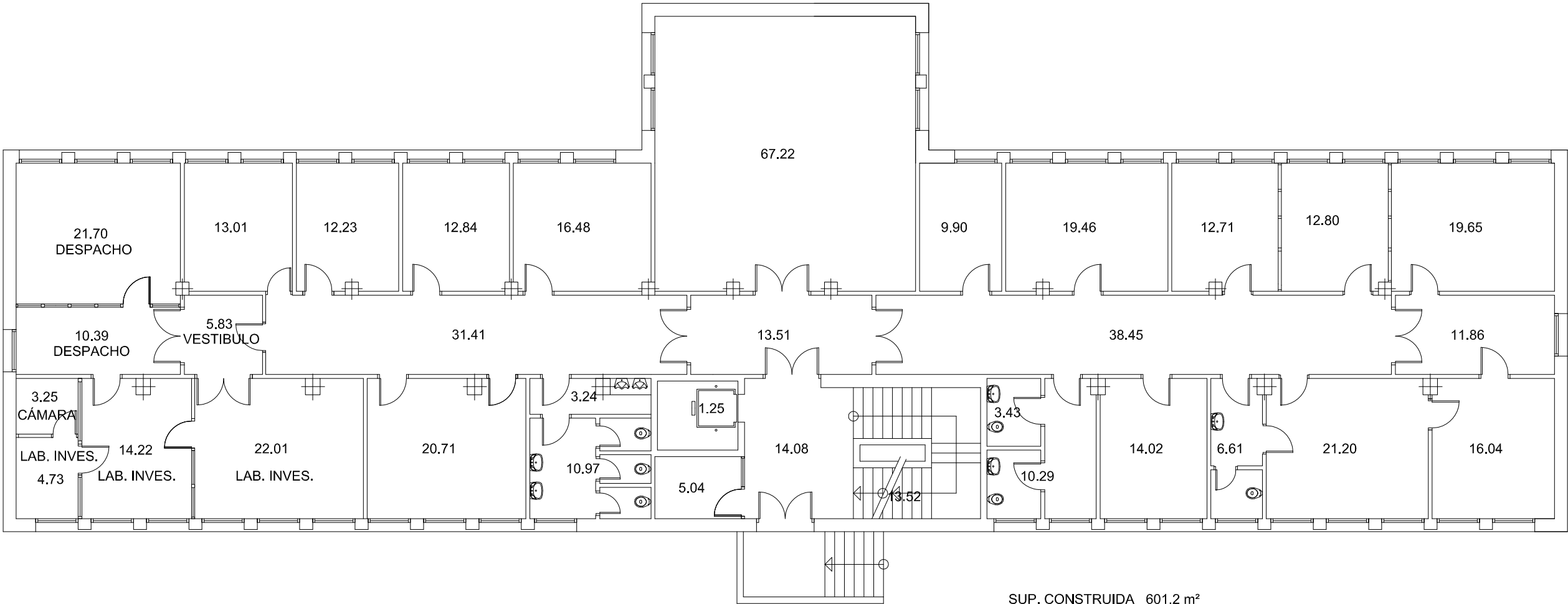
autor:

Antonio J. Letón Carrasco. arquitecto
Vicegerencia de Gestión y Organización - Dirección de Obras y Mantenimiento

UNIVERSIDAD COMPLUTENSE DE MADRID

código de proyecto - número
61 XXX
ENERO 2012
XXX
sustituye a plano anterior
SI ☐ fecha:
NO ☒
escala 1:100





SUP. CONSTRUIDA 601,2 m²

proyecto:

XXX

XXX

dirección:

Avenida Puerta de Hierro, 3. Madrid
Facultad de Veterinaria. Producción Animal. Zootecnia

plano:

ESTADO ACTUAL

PLANTA BAJA

XXX

autor:

Antonio J. Letón Carrasco. arquitecto

Vicegerencia de Gestión y Organización - Dirección de Obras y Mantenimiento

UNIVERSIDAD COMPLUTENSE DE MADRID

código de proyecto - número

61 XXX

ENERO 2012

XXX

sustituye a plano anterior

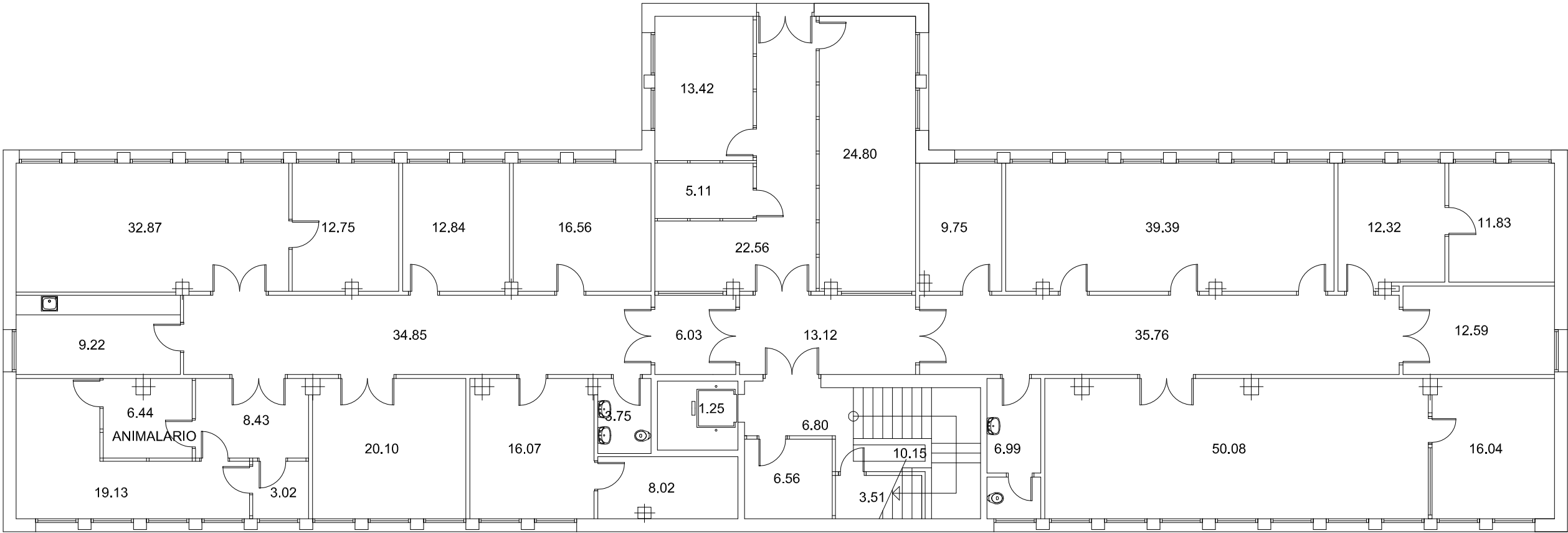
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SUP. CONSTRUIDA 601,2 m²

proyecto:

XXX

XXX

dirección:

Avenida Puerta de Hierro, 3. Madrid
Facultad de Veterinaria. Producción Animal. Zootecnia

plano:

ESTADO ACTUAL
PLANTA SOTANO 1
XXX

autor:

Antonio J. Letón Carrasco. arquitecto
Vicegerencia de Gestión y Organización - Dirección de Obras y Mantenimiento

UNIVERSIDAD COMPLUTENSE DE MADRID

código de proyecto - número
61 XXX
ENERO 2012
XXX

sustituye a plano anterior
SI ☐ fecha:
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escala 1:100

S1





UNIVERSIDAD COMPLUTENSE
MADRID

FACULTAD DE VETERINARIA

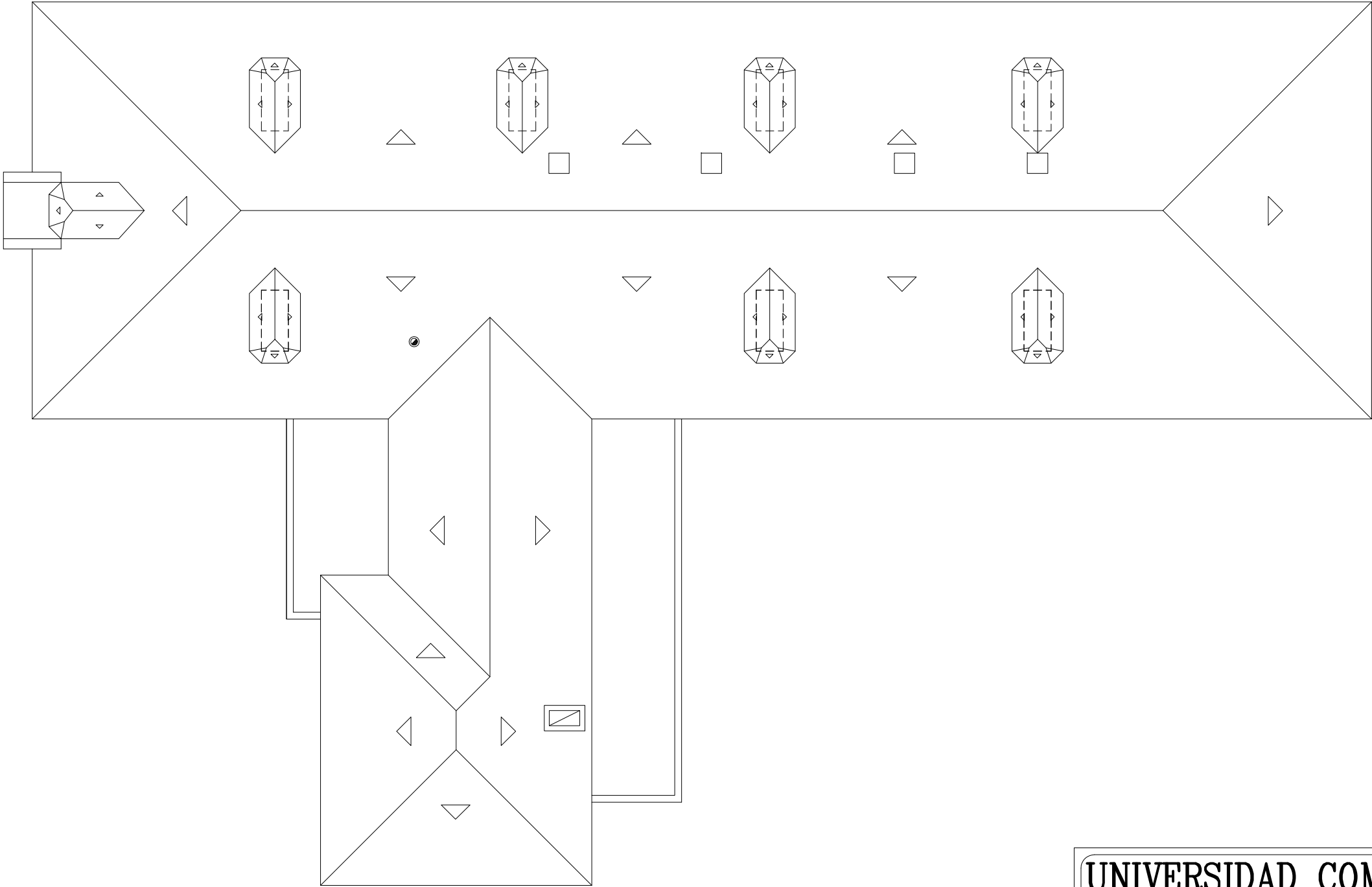
Teaching farm



UNIVERSIDAD COMPLUTENSE
MADRID

FACULTAD DE VETERINARIA

Teaching farm Main building



UNIVERSIDAD COMPLUTENSE MADRID
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS
DIRECCION DE OBRAS Y MANTENIMIENTO

SECCION
DELINEACION

PROYECTO
XXXXXX

CAMPUS
MONCLOA

CENTRO
FACULTAD DE VETERINARIA

EDIFICIO
**INSTITUTO
ALIMENTAC.**

PLANTA
CUBIERTA

PLANO

FECHA
ABRIL 2008

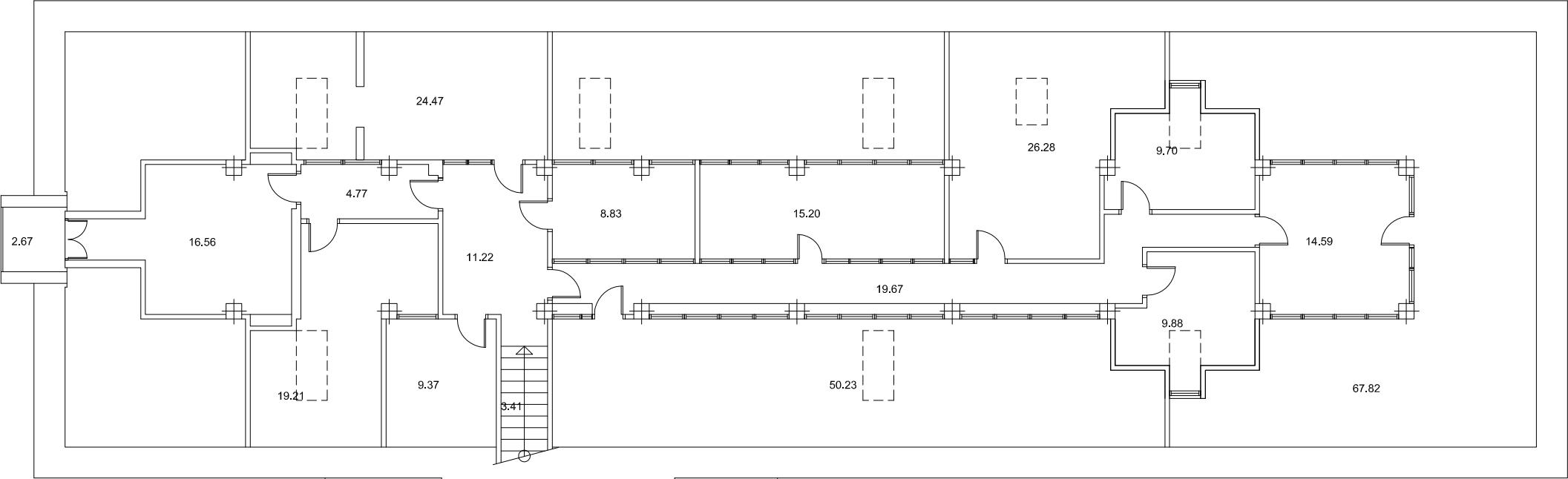
PLANO N.
02

PROYECTO NUMERO
(1.1.13.9) 61 0000
CODIGO + NUMERO

EL ARQUITECTO
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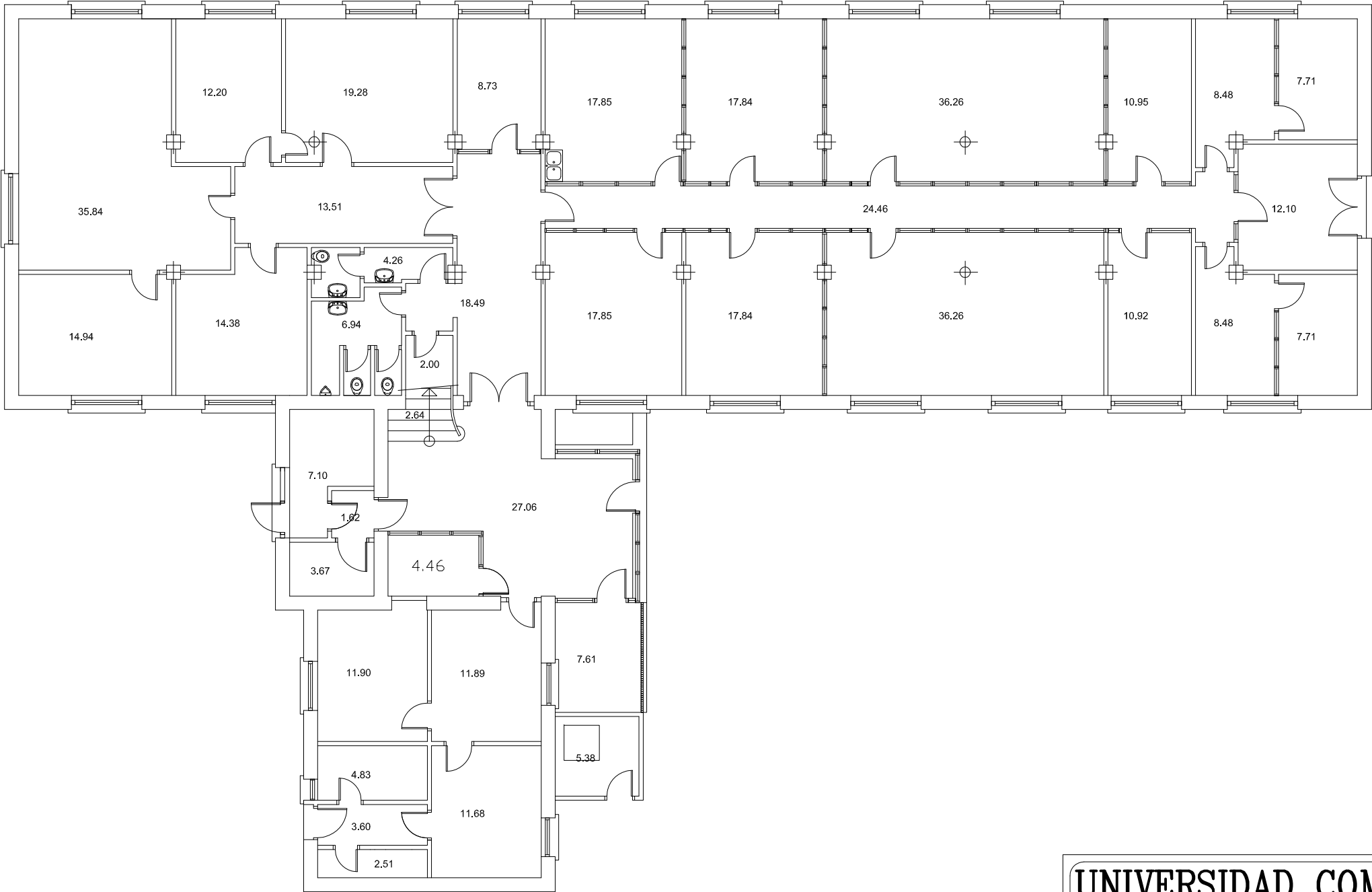
ESCALA

DELINEANTE



SUP. CONSTRUIDA 633,62 m2

UNIVERSIDAD COMPLUTENSE MADRID				
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS				
DIRECCION DE OBRAS Y MANTENIMIENTO				
SECCION DELINEACION		PROYECTO XXXXXX		
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA		EDIFICIO INSTITUTO ALIMENTAC.	PLANTA PRIMERA
PLANO			FECHA ABRIL 2008	PLANO N. 01
			ESCALA	
PROYECTO NUMERO (1.1.13.9) 61 0000		EL ARQUITECTO		
CODIGO + NUMERO		XXXXX		
			DELINEANTE	



SUP. CONSTRUIDA 577,9 m²

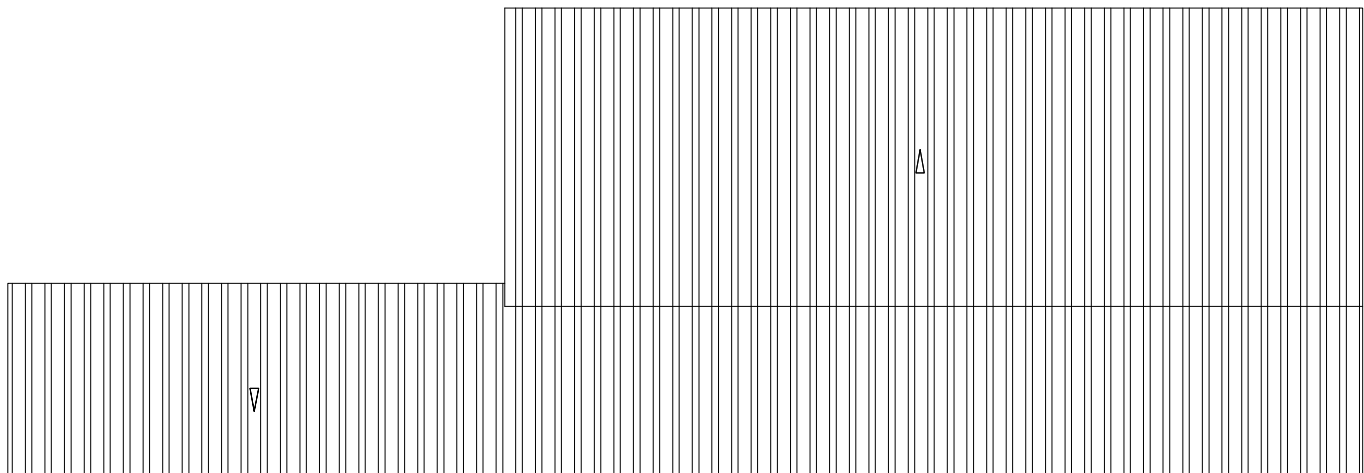
UNIVERSIDAD COMPLUTENSE MADRID			
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION		PROYECTO	
DELINEACION		XXXXXX	
CAMPUS	CENTRO	EDIFICIO	PLANTA
MONCLOA	FACULTAD DE VETERINARIA	INSTITUTO ALIMENTAC.	BAJA
PLANO		FECHA	PLANO N. 00
		DIC. 2010	
		ESCALA	
PROYECTO NUMERO		EL ARQUITECTO	
(1.1.13.9) 61 0000		XXXXX	
CODIGO + NUMERO			



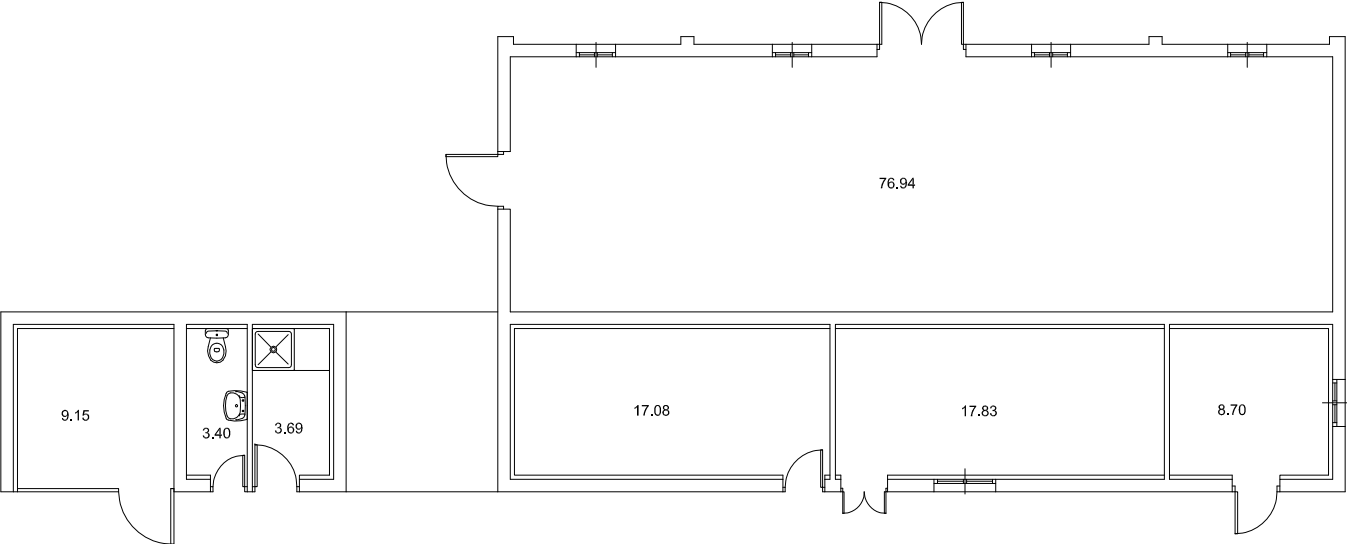
UNIVERSIDAD COMPLUTENSE
MADRID

FACULTAD DE VETERINARIA

Teaching farm A building



UNIVERSIDAD COMPLUTENSE MADRID			
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION		PROYECTO	
DELINEACION		XXXXXX	
CAMPUS	CENTRO	EDIFICIO	PLANTA
MONCLOA	FACULTAD DE VETERINARIA	ANIMALES A	CUBIERTA
PLANO		FECHA	PLANO N.
		ABRIL 2008	
		ESCALA	
PROYECTO NUMERO		EL ARQUITECTO	
(1.1.13.10) 61 0000		XXXXX	
CODIGO + NUMERO			



SUP. CONSTRUIDA 171,35 m²

UNIVERSIDAD COMPLUTENSE MADRID
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS
DIRECCION DE OBRAS Y MANTENIMIENTO

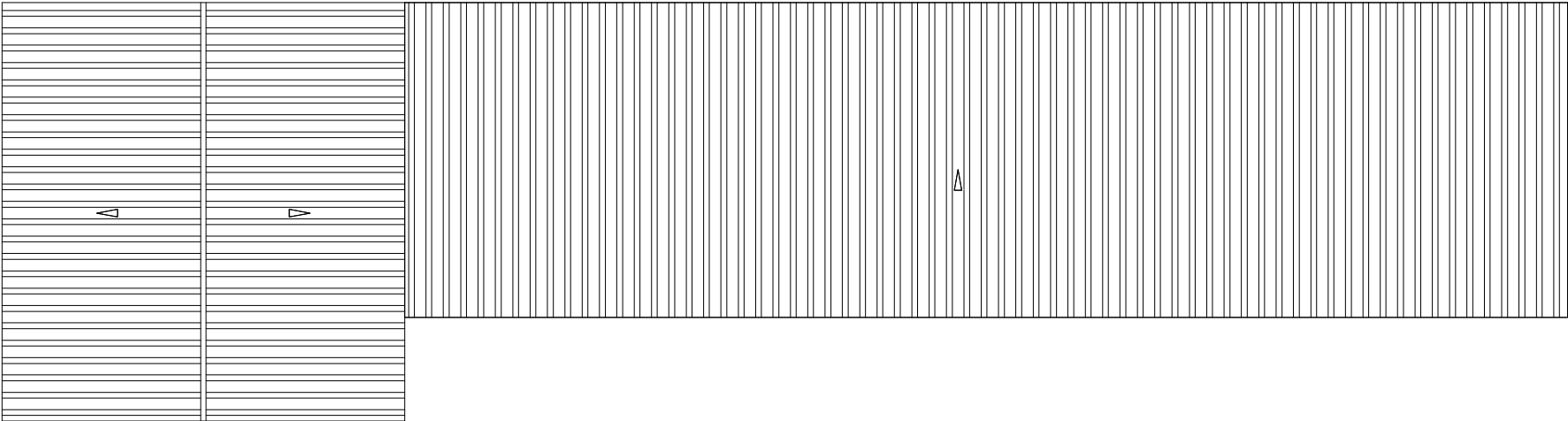
SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO ANIMALES A	PLANTA BAJA
PLANO		FECHA ABRIL 2008	PLANO N. 00
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PROYECTO NUMERO (1.1.13.10) 61 0000 CODIGO + NUMERO		EL ARQUITECTO XXXXX	DELINEANTE



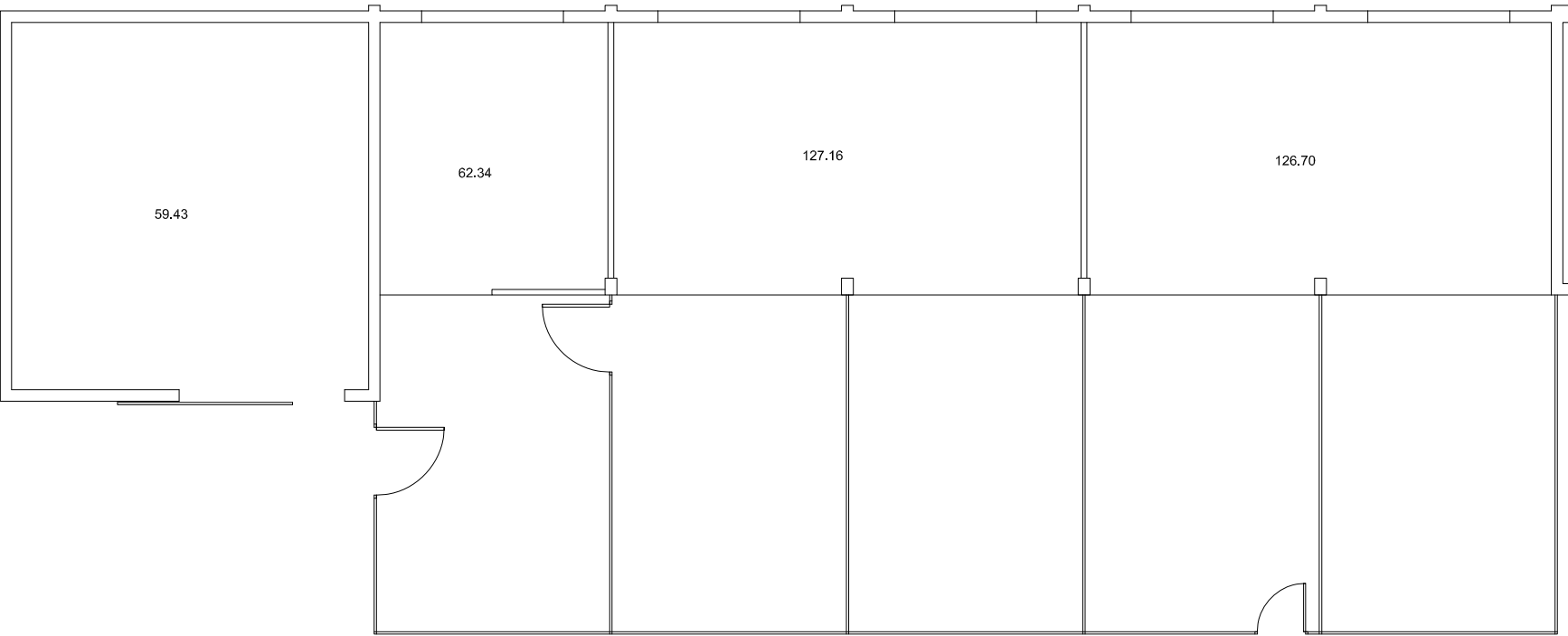
UNIVERSIDAD COMPLUTENSE
MADRID

FACULTAD DE VETERINARIA

Teaching farm B building



UNIVERSIDAD COMPLUTENSE MADRID			
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO ANIMALES B	PLANTA CUBIERTA
PLANO		FECHA ABRIL 2008	PLANO N. 01
PROYECTO NUMERO (1.1.13.11) 61 0000		EL ARQUITECTO	
CODIGO + NUMERO		XXXXX	
		ESCALA	
		DELINEANTE	



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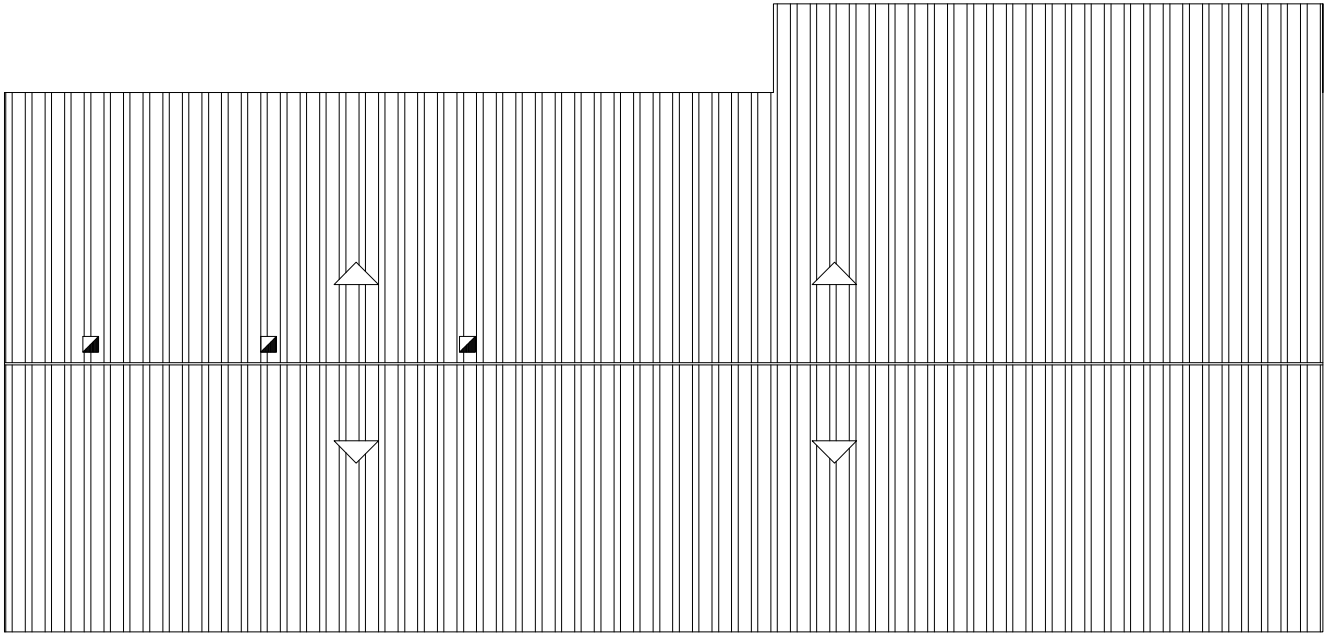
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VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
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SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO ANIMALES B	PLANTA BAJA
PLANO		FECHA ABRIL 2008	PLANO N. 00
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PROYECTO NUMERO (1.1.13.11) 61 0000 CODIGO + NUMERO		EL ARQUITECTO XXXXX	DELINEANTE



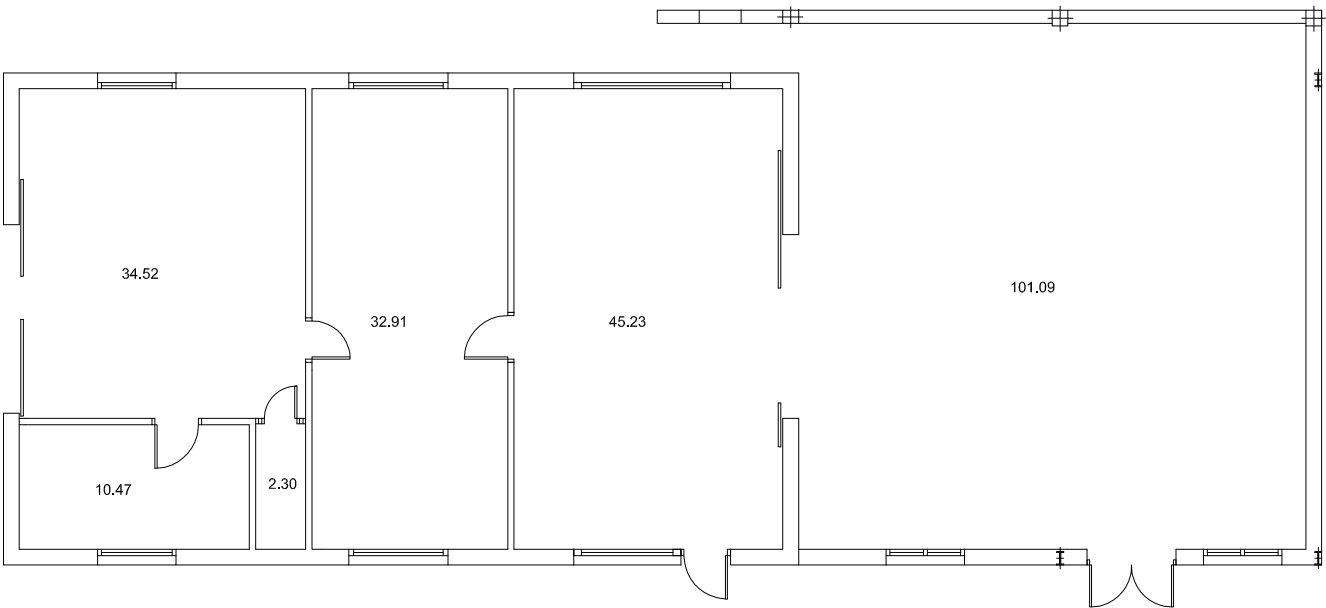
UNIVERSIDAD COMPLUTENSE
MADRID

FACULTAD DE VETERINARIA

Teaching farm Workshops



UNIVERSIDAD COMPLUTENSE MADRID			
VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO TALLERES	PLANTA CUBIERTA
PLANO		FECHA ABRIL 2008	PLANO N. 01
PROYECTO NUMERO (1.1.13.12) 61 0000		EL ARQUITECTO	
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		DELINEANTE	



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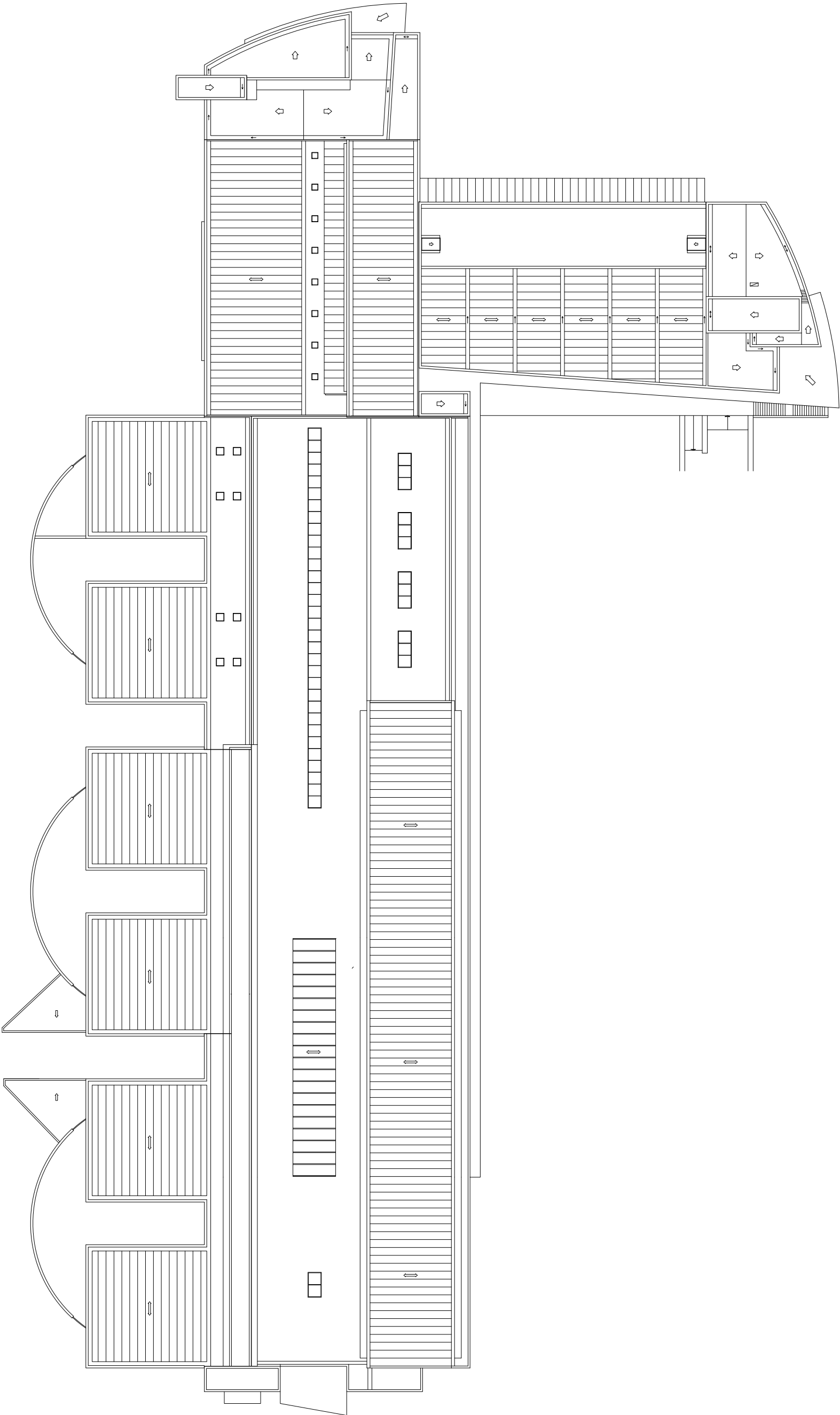
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VICEGERENCIA DE ASUNTOS GENERALES E INFRAESTRUCTURAS			
DIRECCION DE OBRAS Y MANTENIMIENTO			
SECCION DELINEACION		PROYECTO XXXXXX	
CAMPUS MONCLOA	CENTRO FACULTAD DE VETERINARIA	EDIFICIO TALLERES	PLANTA BAJA
PLANO		FECHA ABRIL 2008	PLANO N. 00
		ESCALA	
PROYECTO NUMERO (1.1.13.12) 61 0000 CODIGO + NUMERO		EL ARQUITECTO XXXXX	DELINEANTE



UNIVERSIDAD COMPLUTENSE
MADRID

FACULTAD DE VETERINARIA

**Veterinary teaching hospital
building**



SUPERFICIE TOTAL CUBIERTA: 8390,98 m²

proyecto:

XXX
XXX

XXX

dirección:

Avenida Puerta de Hierro, 5, Madrid - Hospital Clínico Veterinario

plano:

ESTADO ACTUAL
PLANTA CUBIERTA
USOS Y SUPERFICIES

autor:

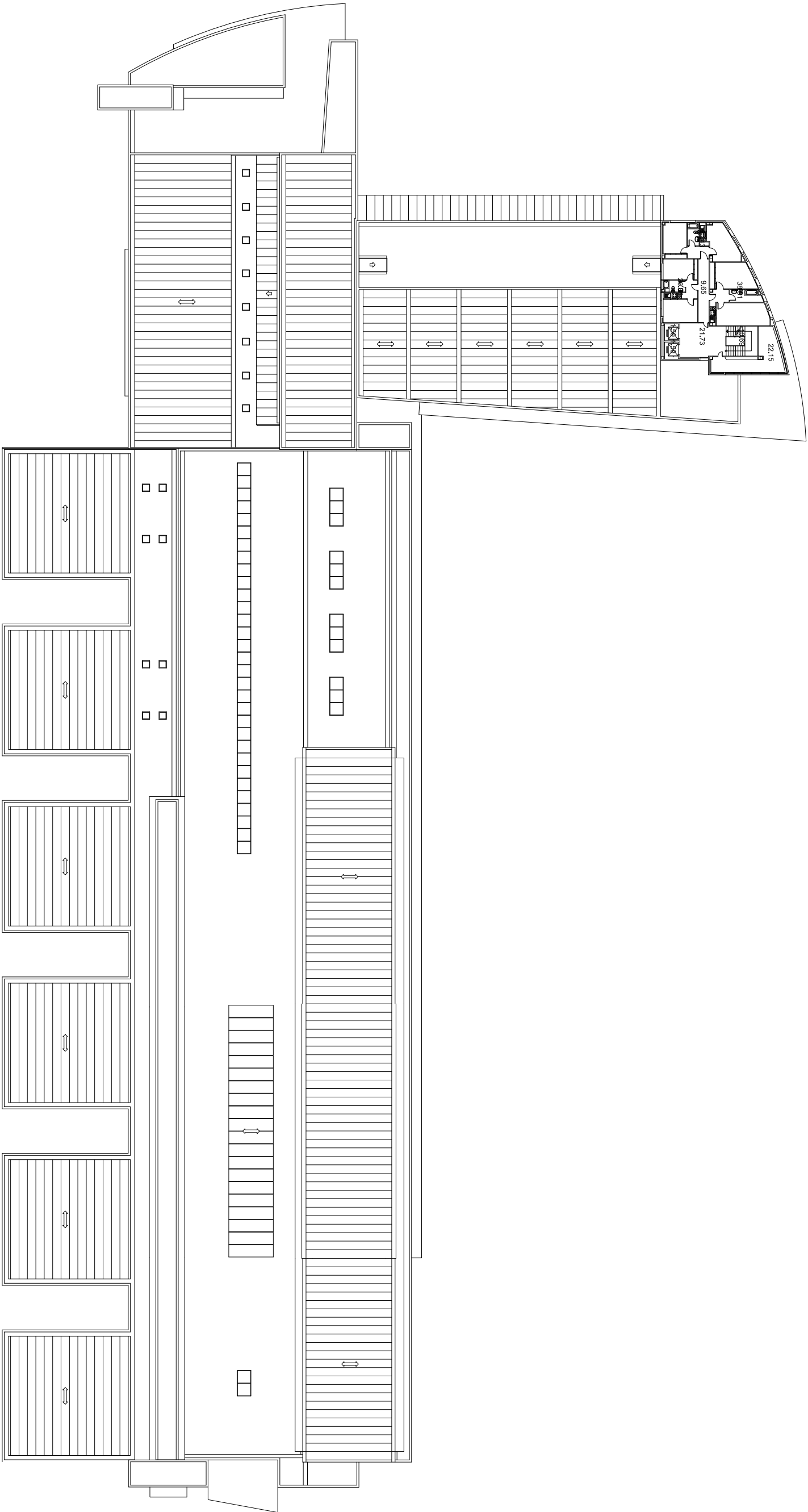
Antonio J. León Carrasco, arquitecto

Vicegerencia de Gestión y Organización - Dirección de Obras y Mantenimiento

UNIVERSIDAD COMPLUTENSE DE MADRID



05

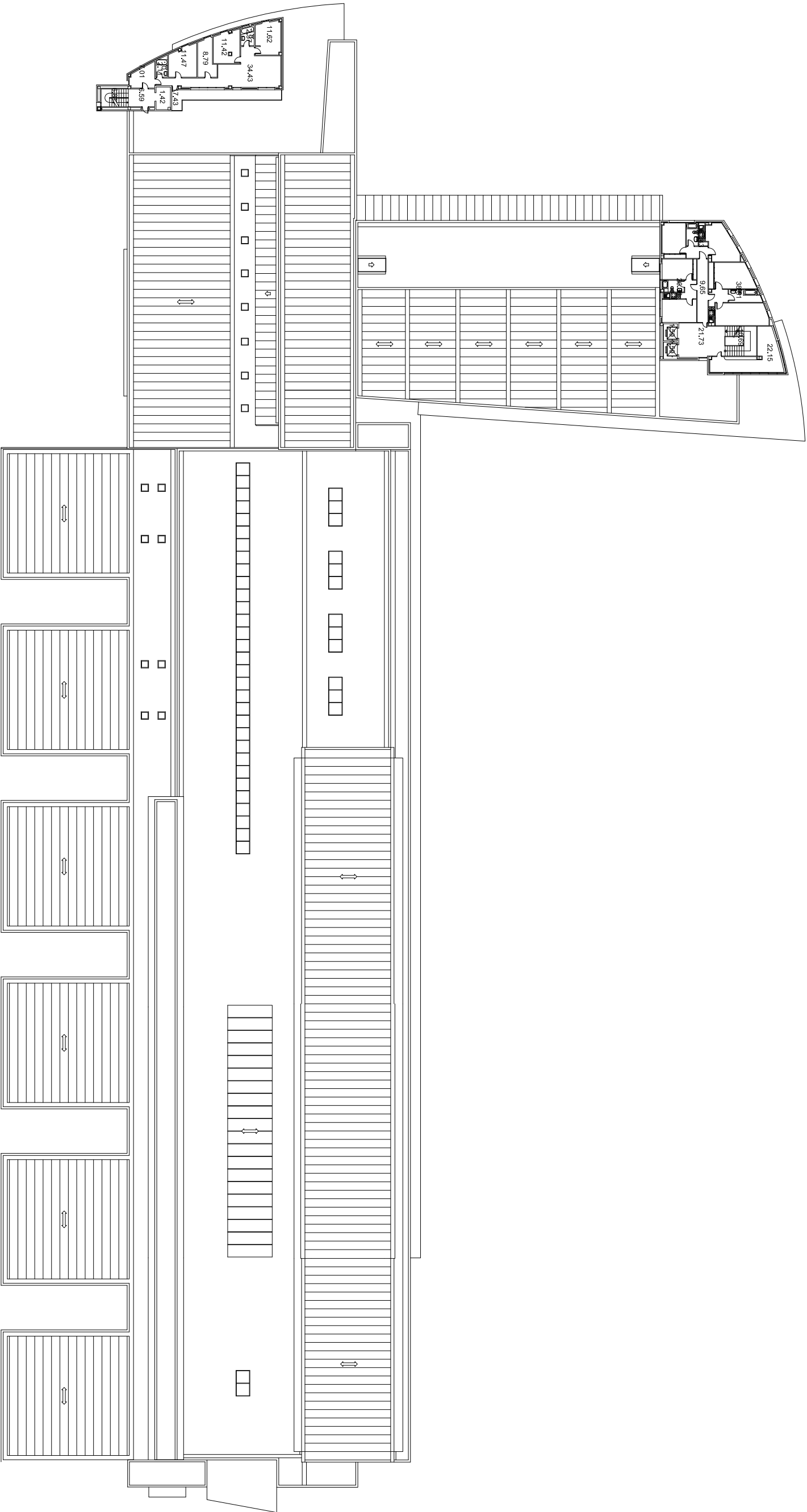


SUP. CONSTRUIDA, 206,03 m²

proyecto:	Edificio de proyectos - 1.º y 2.º
XXX	Edificio de proyectos - 1.º y 2.º
XXX	Edificio de proyectos - 1.º y 2.º
XXX	Edificio de proyectos - 1.º y 2.º
dirección:	Edificio de proyectos - 1.º y 2.º
plano:	Edificio de proyectos - 1.º y 2.º
ESTADO ACTUAL	Edificio de proyectos - 1.º y 2.º
PLANTA CUARTA	Edificio de proyectos - 1.º y 2.º
USOS Y SUPERFICIES	Edificio de proyectos - 1.º y 2.º
autor:	Edificio de proyectos - 1.º y 2.º

04





SUP. CONSTRUIDA 335,28 m²

proyecto:

XXX
XXX
XXX

dirección:

Avda. Puerta de Hierro, 5, Madrid - Hospital Clínico Veterinario

plano
ESTADO ACTUAL
PLANTA TERCERA
USOS Y SUPERFICIES

autor:

Aitorio L. León Carasco, arquitecto

Vicegerencia de Gestión y Organización - Dirección de Obras y Mantenimiento

UNIVERSIDAD COMPLUTENSE DE MADRID



03



UNIVERSIDAD COMPLUTENSE
MADRID

FACULTAD DE VETERINARIA

Appendix I (Location & Access)

Facultad de Veterinaria

Localización y Accesos





UNIVERSIDAD COMPLUTENSE
MADRID

FACULTAD DE VETERINARIA

Appendix II (Buildings distribution)

Facultad de Veterinaria

Distribución de Pabellones





Granja docente
(Teaching farm)

Main building (including teaching Lab, and Lectures room with capacity for 70 students) and Fenced areas for horses (500 m2), cattle (2100m2), small ruminants (930 m2), poultry (252 m2), rabbit (171 m2) and a dog training area (395 m2)

Department of Animal Production, with its teaching and research laboratories, One lecture room for 71 people. Animal facility with procedure, cleaning, quarantine and breeding mice areas with 400 galvanized steel cages organized in racks

Edificio de Producción Animal
(Animal Production Building)

Government Bodies and Central Administrative Services, Erasmus Office, Student Orientation Office, Professional Orientation Office, Library, 3 computer rooms, Departments of Biochemistry and Molecular Biology IV, Pharmacology and Toxicology, Applied Physics, Animal Physiology and Animal Health, including animal facilities and Teaching laboratories. Also houses Auditorium (Salón de Actos, 272 people), Graduates Lecture Room (Sala de Grados, 74 people), Meeting Room (Sala de Juntas, 85 people [45+40]), Teachers Room (20 sitting places), Seminar Room (25-30 sitting places), Reprography Service, Food Processing Unit, personnel locker rooms, a clear area of around 210 m2 and three auxiliary laboratories (60 m2, 48 m2, and 42 m2)

Edificio Principal
(Main Building)

Hospital Clínico Veterinario Complutense
(Veterinary teaching Hospital Building)

Aulario A
(Building A)

Teaching and research labs and facilities and Two Dissection Rooms

A1, A2, A3, A4
A5, A6, A7, A8
Student association office

Aulario B
(Building B)

B1, B2, B3 y B4
Cafetería
Student association offices

Edificio de Nutrición, Bromatología y Tecnología de los Alimentos
(Food Science and Technology Building)

Department of Food Science and Technology, with its teaching and research labs and facilities, Food Processing Unit, One lecture room for 62 people

Edificio de Anatomía
(Anatomy Building)

Edificio de Sanidad Animal
(Animal Health Building)

Teaching and research labs and facilities. Including a rest zone and parking of around 750 m2

Animalario de Fisiología
(Animalarium of the Department of Animal Physiology)

Edificio de Fisiología
(Animal Physiology Building)

Department of Animal Physiology with its teaching and research labs



UNIVERSIDAD
COMPLUTENSE
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FACULTAD DE VETERINARIA

Appendix 4.

Written assessment procedures for QA

4.1. Operating Regulations Quality Commission FVM

OPERATING REGULATIONS OF THE QUALITY COMMISSION (QA COMMISSION), FACULTY OF VETERINARY (FVM), COMPLUTENSE UNIVERSITY OF MADRID (UCM)

TITLE 1. OBJETIVE AND COMPOSITION

Section 1. Aim and functions

Article 1. Aim

1. The purpose of this Regulation is to regulate the organization and operation of the Quality Commission of the Faculty of Veterinary (FVM) of the Universidad Complutense de Madrid.
2. The Quality Commission of the FVM is the maximum responsible for the quality of teaching in the FVM.

Article 2. Legal framework

The Quality Commission of the FVM will be governed by the Organic Law 6/2001 of December 21, Universities (BOE of December 24), the Statutes of the Complutense University of Madrid, approved by Decree 58 / 2003, of 8 May, of the Council of Government of the Community of Madrid (BOCM of 28 May), by the Government Regulation of the UCM, approved by Agreement of the Governing Council 13 of July of 2005 (BOUCM of 25 Of November), by the current Operating Regulations, as well as by any provisions that may be issued in the development of said rules.

Article 3. Functions

1. The Quality Commission of the FVM shall have the following functions, among others:
 - 1) To carry out the follow-up of the Internal Quality Assurance System of the Degrees taught at the FVM.
 - 2) To manage and coordinate all aspects related to this system.
 - 3) To carry out the follow-up and evaluation of the quality objectives of the Degrees taught at the FVM.
 - 4) To make proposals for review and improvement of the Degrees, and follow up on them.
 - 5) To propose and modify the quality objectives of the Degrees taught at the FVM.
 - 6) To collect information and evidence on the development and application of the training programs of the Degrees taught at the FVM (objectives, development of teaching and learning and others).
 - 7) To manage the Information System of the Degrees taught at the FVM.
 - 8) To establish the quality policy of the Degrees taught at the FVM, in accordance with the quality policy of the UCM.
2. In particular, the Quality Commission of the FVM will perform the following functions:

- 1) Annual elaboration of a report of the actions developed by the Commission.
- 2) Annual elaboration of a report on the progress of the teaching of the degrees given at the FVM, as well as a plan for improvements thereof, which shall be submitted for approval to the Faculty Council.
- 3) Preparation of reports to monitor the implementation of improvements proposed and approved by the Faculty Council.
- 4) Adoption of decisions and, as the case may be, decisions in relation to the claims and suggestions presented.
- 5) Adoption of the proposals to modify the Operating Regulations of the Quality Commission.
- 6) All other functions included in the System of Internal Quality Assurance of the qualifications given at the FVM, as well as those attributed to the Commission by whatever provisions are issued in the development of said System and that expressly to the Commission.

Section 2. Members. Rights. Responsibilities

Article 4. Members

1. The members of the Quality Commission of the FVM are:

- Dean or Delegate
- Responsible of Coordination of the Degree in Veterinary
- Responsible of Coordination of the Degree in Food Science and Technology
- Responsible of postgraduate education of the FVM
- Manager of the FVM or delegate
- A representative of the Department Directors / departmental section (designated rotationally according to the alphabetical order of the name of the department)
- A representative of teachers with permanent link (by drawing)
- A representative of other teaching and research staff (by drawing)
- A representative of students of the Veterinary degree proposed by the official delegation of FVM students among those who attend the last two courses of the degree (while there are no students of the last year of new syllabus, it will be offered to undergraduate students of old syllabus).
- A representative of students of the Degree in Science and Technology of Food proposed by the official delegation of students of the FVM among those who attend the last two courses of the degree (while there are no students of the last year of new syllabus, it will be offered to undergraduate students of old syllabus).
- A representative of postgraduate students proposed by the official delegation of students of the FVM among those who study official postgraduate courses taught at the centre.
- A member of the Spanish Conference of Veterinary Faculties.

2. Likewise, the members of the Quality Commission shall be appointed by the Faculty Council. The duration of the term will be 2 years from the designation, except in the case of the students, whose terms will be of 1 year (considering that the students can be of the last year or of master).

3. The designation of the member of the Spanish Conference of Veterinary Faculties in the Quality Commission will be realized by the Faculty Council at the proposal of that one. The duration of the term shall be 2 years.

4. The members of the Quality Commission of the FVM may not attribute the functions of representation recognized to it, unless expressly given by agreement validly adopted, for each specific case, by the Quality Commission.

Article 5. The President

1. The President will be the Dean or Delegate assuming the functions of Presidency of the Quality Commission.
2. The president of the Quality Commission of the FVM will:
 - a. Exercise the representation of the Quality Commission.
 - b. Decide the meeting call of ordinary and extraordinary sessions and the agenda, taking into account, where appropriate, the requests of other members made sufficiently in advance.
 - c. Preside over the sessions, to moderate the debates and to suspend them for justified reasons.
 - d. Resolve with his vote the ties, in order to adopt agreements.
 - e. Ensure compliance with the legal framework.
 - f. Certify the minutes and certifications of the agreements of the Quality Commission.
 - g. Invite those who can report on specific topics to attend meetings of the Commission. In no case shall the persons invited have the right to vote.
 - h. Exercise as many other functions are inherent to his status as President of the Quality Commission of the FVM.
 - i. Exercise the rights that correspond to him as a member of the Quality Commission of the FVM.
3. The Quality Commission may appoint from among its members a Vice-President. In the event of a vacancy, absence, sickness or other legal cause, the President shall be replaced by the Vice-President, and in his absence, by the member of the Quality Commission of higher category, seniority and age, in this order, among its members.

Article 6. The Secretary

1. The Quality Commission of the FVM will have a Secretary who will have the following competencies:
 - a. To attend meetings with voice but without vote if he does not have the status of member of the Quality Commission, and with voice and vote if the Secretary is member of the Commission.
 - b. To make the call of the sessions by order of its President, as well as the summons to the members of the Commission.

- c. To receive the acts of communication of the members with the Quality Commission and, therefore, the notifications, requests of data, rectifications or any other type of documents of which it should have knowledge.
- d. To prepare the dispatch of the issues, to draft and to authorize the minutes of the sessions.
- e. To issue certifications of approved consultations, judgments and agreements.
- f. To assist and to advise the Quality Commission of the FVM in the execution of its duties.
- g. If the Secretary is a member of the Quality Commission, he/she will exercise those rights that correspond as such.
- h. Other functions inherent to the status of Secretary.

2. The appointment and cessation of the Secretary shall be made by agreement of the Quality Commission.

3. In cases of vacancy, absence, illness or other legal cause, the Secretary shall be replaced by the member of the Quality Commission appointed for this purpose, at the proposal of the President.

Article 7. External Agents

The External Agents will participate in the meetings of the Quality Commission, and especially in those related to decision-making, review and proposals for the improvement of the Degrees.

Article 8. Rights of the members of the Quality Commission

The members of the Quality Commission shall have the right to:

- a) Receive, with a minimum of 48 hours in the event of ordinary sessions and 24 hours in the extraordinary sessions, the call of meetings and the agenda of the same.
- b) Have at their disposal, in the same period, all the documentation containing the necessary information for the treatment of the matters that appear in the agenda.
- c) Participate in the debates of the sessions.
- d) Exercise their right to vote and to formulate their particular vote, as well as to express the meaning of their vote and the reasons that justify it. The exercise of the vote is personal, non-transferable and non-transferable.
- e) Formulate requests and questions.
- f) Obtain the necessary information to fulfil the assigned functions.
- g) Other functions inherent to their condition.

Article 9. Responsibilities of the members of the Quality Commission

The responsibilities of the members of the Quality Commission are:

- a) To attend the sessions of the Commission of Quality, as well as to contribute to its normal operation, participating in as many activities as are precise.
- b) To submit to the Quality Commission the issues that affects it.
- c) To keep secrecy in cases where the nature of the information so requires.
- d) To refrain from intervening in the decisions of the Quality Commission when incurring in any of the cases provided for in the legislation of the legal regime of public administrations.

Article 10. Loss of membership of the Quality Commission

Membership of the Quality Commission is lost:

- a) By voluntary resignation formalized in writing to the President of the Commission
- b) Upon termination of the position or group for which he/she is a member of the Commission.
- c) For incapacity to perform the functions inherent to that condition.
- d) By death.
- e) By a firm judicial decision that annuls its election or proclamation.
- f) Upon completion of the representation of the period for which he/she was appointed.
- g) Upon termination agreed by the Faculty Council.

TITLE 2. OPERATION OF THE QUALITY COMMISSION

Article 11. Meetings

1. The Quality Commission of the FVM will meet in ordinary and extraordinary sessions.
2. In ordinary sessions, it shall meet twice in each academic year, coinciding with the end of each semester approximately.
3. The Quality Commission shall meet in extraordinary sessions at the initiative of the President or at the request of a minimum of 20% of the total membership. These meetings shall be convened at least twenty-four hours in advance and shall contain the agenda of the meeting.
4. For reasons of urgency, the President may, with the agreement of the Quality Commission, be able to call a new meeting orally during a meeting, sending urgent notification to the non-attending members.

Article 12. Call and Agenda.

1. The members of the Quality Commission must receive the call, with the agenda, at least 48 hours in advance, except in the case of extraordinary sessions that will be 24 hours.
2. The call, together with the agenda and the corresponding documentation, will be made by any means that allows make a record of receipt. Whenever available means permit, the

call and the remaining documents will be sent by electronic means, being the originals deposited in the respective secretariat at the disposal of the members.

3. The agenda shall be set by the President, and shall necessarily include those points that have been requested by 20% of the members of the Quality Commission. No matter not included in the Agenda shall be subject to deliberation, voting or agreement, unless all the members of the Quality Commission are present and the urgency is declared by the favourable vote of the majority of the members.

4. The Agenda may specify which matters may be approved, if there is no opposition, without the need for deliberation.

Article 13. Electronic communications.

1. Communications to the members of the Quality Commission will be practiced using the telematic means that the University makes available to the university community. The member of the Quality Commission who does not have the means or does not want to receive the documentation by telematic means will communicate it to the Secretary of the Commission.

For that purpose, once their designation has been made, the members of the Quality Commission shall provide the Secretary with an e-mail address, to which communications shall be addressed. The members of the Quality Commission shall communicate to the Secretary any changes in the e-mail address that may occur.

2. The telematic communication to the members of the Quality Commission will only be valid if there is evidence of reception, dates and the full content of the communications, and the sender and the recipient are reliably identified.

3. The communication shall be understood to be performed for all legal purposes at the time of access to its contents in the electronic address provided. When there is a record of receipt of the notification in the electronic address, four calendar day's elapse, for the convocations of ordinary sessions and twenty-four hours, for the convocations of extraordinary sessions, without access to its content, it will be understood that the notification has been rejected, unless the technical or material impossibility of access is established.

Article 14. Development of sessions

1. The Quality Commission of the FVM will be validly constituted for the purpose of holding sessions, deliberations and making agreements, at first call when at least half of its members, the President and the Secretary are present, and at second call, half an hour later, when at least one-third of its members, the President and the Secretary are present.

2. Participation in deliberations and voting is personal and non-delegable.

3. No one shall be interrupted while speaking, except by the President.

4. In order to proceed to the discussion, the President shall open a series of speeches. In view of the requests, the President may determine the time limitations of their use.

5. The closure of the discussion may be agreed upon by the President, upon prior notice, once those who have requested the floor or have renounced.

6. Once the discussion has been closed, the President will present the proposal or proposals that are the subject of a vote.

7. The members of the Quality Commission may be called to order when they interrupt or otherwise alter the order of the sessions or when they intend to continue speaking after they have been withdrawn. After having been warned three times at the same Session, the President may impose a ban on attending the rest of the session.

Article 15. Order issues.

1. Order issues shall be considered, inter alia, the proposed postponement of the debate, the limitations on the interventions, the proposal for suspension or the proposal for a vote.
2. Points of order shall be decided, if necessary, by a show of hands.

Article 16. Agreements.

1. The agreements shall be adopted by simple majority, by assent or by public vote by show of hands, at the proposal of its President. In case of a tie the president has a casting vote. In any case, the proposed modification of the Operating Regulations of the Quality Commission will require its approval by an absolute majority.
2. Exceptionally, agreements may be adopted by secret ballot at the request of one of its members. The voting related to people will always be secret. Once a proposal has been made by the President, it will be considered approved by assent, if no member requests the vote or presents objection or opposition to it.
3. Upon the announcement of the beginning of a vote by the President, no member may interrupt it except to raise a point of order relating to the manner in which the voting is being conducted.
4. No matter that is not expressly included in the Agenda can be voted, unless all the members of the Commission are present, it is proposed at the beginning of the session, and the urgency of the matter is declared by the favourable vote of the Commission by majority.

Article 17. Minutes.

1. Minutes of each meeting held by the Quality Commission of the FVM shall be recorded by the Secretary, who shall necessarily specify the attendees, the agenda of the meeting, the circumstances of the place and the time at which it was held, the Points of the deliberations, as well as the content of the agreements adopted.
2. The minutes shall contain the agreement or agreements adopted. Likewise, at the request of the respective members of the Quality Commission, a vote contrary to the agreement, their abstention and the reasons justifying it or the sense of their favourable vote shall be included. Any member has the right to request the full transcription of his intervention or proposal, provided that he or she furnishes, at the time, or within the term indicated by the President, the text that corresponds faithfully to his intervention, thus recording in the minutes or joining a copy to the same.
3. Members who disagree with the majority agreement may formulate a private vote in writing within forty-eight hours, which shall be incorporated into the approved text. Individual votes shall be limited to explaining the reasons for the discrepancy.

4. When the members of the Quality Commission vote against or abstain, they will be exempt from any responsibility that may arise from the agreements, if any.
5. The minutes shall be approved at the same or at the next session, although the Secretary may nevertheless issue certification on the specific agreements that have been adopted, without prejudice to the subsequent approval of the minutes. In the certifications of agreements issued prior to the approval of the minutes, this circumstance shall be expressly stated.
6. The Minutes shall be signed, on the last page and in the margin of each of the others, by the Secretary and shall be endorsed by the President. The sheets should be numbered sequentially, starting with number 1. The minutes will be filed in the secretariat of the Quality Commission under the responsibility of the Secretary.
7. The Secretary shall send a copy of the minutes of each session to all members of the Quality Commission as soon as possible, and in any case, together with the convening of the next session of the Commission at which it is to be approved.
8. The minutes of one session shall be approved at the beginning of the next session.
9. Any member of the Quality Commission who does not agree with the content of the Minutes may request in writing any modifications that may be considered. The Secretary may not estimate the correctness of the amendments, in which case may reasonably reject the amendments that arise.

Article 18. Agreement effects.

1. The agreements and decisions adopted by the Quality Commission will have the appropriate effects according to their content and that established in current regulations.
2. The agreements and decisions adopted by the Quality Commission will be communicated to the interested parties to make the necessary changes and improvements. They will also be submitted to the Faculty Council for its knowledge and, if necessary, for ratification.

TITLE 3. ACTING QUALITY COMMISSION

Article 19. Acting Intervention

The members of the Quality Commission, once their term has expired, will remain acting until the election of the new members and will limit their management to the adoption of agreements on procedural matters, refraining from adopting, unless duly accredited cases of urgency or reasons of general interest for the Degrees, whose accreditation expressly justifies it.

TITLE 4. MODIFICATION OF THE OPERATING REGULATIONS OF THE QUALITY COMMISSION

Article 20. Modification of the Operating Regulations

The proposal to modify these operating regulations will require the favourable votes of the absolute majority of the members of the Quality Commission of the FVM. Once approved, the proposal will be submitted to the Faculty Council for approval.

FINAL REGULATION

Unique. - The present Operating Regulations of the Quality Commission of the FVM will come into force the day after its publication in the Official Bulletin of the Complutense University of Madrid.

4.2. Operating Regulations Committee Assessment and Improvement of the Veterinary Degree Curriculum

**OPERATING REGULATIONS OF THE COMMITTEE FOR ASSESSMENT AND IMPROVEMENT
OF THE VETERINARY DEGREE CURRICULUM, FACULTY OF VETERINARY (FVM),
COMPLUTENSE UNIVERSITY OF MADRID (UCM)**

TITLE 1. OBJETIVE AND COMPOSITION

Section 1. Aim and functions

Article 1. Aim

1. The purpose of this Regulation is to regulate the organization and operation of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum, Faculty of Veterinary (FVM) of the Universidad Complutense de Madrid. The Committee for Assessment and Improvement of the Veterinary Degree Curriculum is the maximum responsible for the quality of teaching of the Degree in Veterinary in the FVM.

Article 2. Legal framework

The Committee for Assessment and Improvement of the Veterinary Degree Curriculum will be governed by the Organic Law 6/2001 of December 21, Universities (BOE of December 24), the Statutes of the Complutense University of Madrid, approved by Decree 58 / 2003, of 8 May, of the Council of Government of the Community of Madrid (BOCM of 28 May), by the Government Regulation of the UCM, approved by Agreement of the Governing Council 13 of July of 2005 (BOUCM of 25 Of November), by the current Operating Regulations, as well as by any provisions that may be issued in the development of said rules.

Article 3. Functions

1. The Committee for Assessment and Improvement of the Veterinary Degree Curriculum shall have the following functions, among others:

- 1) To carry out the follow-up of the Internal Quality Assurance System of the Degree in Veterinary.
- 2) To manage and coordinate all aspects related to this system.
- 3) To carry out the follow-up and evaluation of the quality objectives of the Degree in Veterinary.
- 4) To make proposals for review and improvement of the Degree in Veterinary, and follow up on them.
- 5) To propose and modify the quality objectives of the Degree in Veterinary.
- 6) To collect information and evidence on the development and application of the training programs of the Degree in Veterinary (objectives, development of teaching and learning and others).
- 7) To manage the Information System of the Degree in Veterinary.

8) To establish the quality policy of the Degree in Veterinary, in accordance with the quality policy of the FVM and the UCM.

In particular, the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will perform the following functions:

- 1) Annual elaboration of a report of the actions developed by the Committee.
- 2) Annual elaboration of a report on the progress of the teaching of the Degree in Veterinary, as well as a plan for improvements thereof, which shall be submitted for approval to the Faculty Council.
- 3) Preparation of reports to monitor the implementation of improvements proposed and approved by the Faculty Council.
- 4) Adoption of decisions and, as the case may be, decisions in relation to the claims and suggestions presented.
- 5) Adoption of the proposals to modify the Operating Regulations of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum.
- 6) All other functions included in the System of Internal Quality Assurance of the qualifications given at the FVM, as well as those attributed to the Committee by whatever provisions are issued in the development of said System and that expressly to the Committee.

Section 2. Members. Rights. Responsibilities

Article 4. Members

2. The members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum are:
 - Responsible of Coordination of the Degree in Veterinary
 - Nine teachers, coordinators of subjects of the Degree, designated each one of them by their respective Departments and the Departmental Section.
 - Two representatives of students of the Degree in Veterinary proposed by the official delegation of FVM students among those who attend the last two courses of the degree (while there are no students of the last year of new syllabus, it will be offered to undergraduate students of old syllabus).
 - The Head of Student Secretary of the FVM.
 - A representative of the Official College of Veterinary Surgeons of Madrid, whose presidency will propose a list of which will be designated by the Faculty Council.
 - The Director of the Veterinary Teaching Hospital (VTH)
 - The Head of the Teaching Farm of the FVM

The person in charge of the Vice-Dean of Students or equivalent position will be invited.

2. Likewise, the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum shall be appointed by the Faculty Council. The duration of the term will be 2 years from the designation, except in the case of the students, whose terms will be of 1 year (considering that the students can be of the last year or of master).

3. The designation of the member of the Official College of Veterinary Surgeons of Madrid in the Committee will be realized by the Faculty Council at the proposal of that one. The duration of the term shall be 2 years.

4. The members of the Committee may not attribute the functions of representation recognized to it, unless expressly given by agreement validly adopted, for each specific case, by the Committee.

Article 5. The President

3. The President of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will be the responsible of Coordination of the Degree in Veterinary.

4. The president of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will:

a. Exercise the representation of the Committee.

b. Decide the meeting call of ordinary and extraordinary sessions and the agenda, taking into account, where appropriate, the requests of other members made sufficiently in advance.

c. Preside over the sessions, to moderate the debates and to suspend them for justified reasons.

d. Resolve with his vote the ties, in order to adopt agreements.

e. Ensure compliance with the legal framework.

f. Certify the minutes and certifications of the agreements of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum.

G. Invite those who can report on specific topics to attend meetings of the Committee. In no case shall the persons invited have the right to vote.

H. Exercise as many other functions are inherent to his status as President of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum.

I. Exercise the rights that correspond to him as a member of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum.

3. The Committee for Assessment and Improvement of the Veterinary Degree Curriculum may appoint from among its members a Vice-President. In the event of a

vacancy, absence, sickness or other legal cause, the President shall be replaced by the Vice-President, and in his absence, by the member of the Committee of higher category, seniority and age, in this order, among its members.

Article 6. The Secretary

1. The Committee for Assessment and Improvement of the Veterinary Degree Curriculum will have a Secretary who will have the following competencies:

- a. To attend meetings with voice but without vote if he does not have the status of member of the Committee, and with voice and vote if the Secretary is member of the Committee.
- b. To make the call of the sessions by order of its President, as well as the summons to the members of the Committee.
- c. To receive the acts of communication of the members with the Committee and, therefore, the notifications, requests of data, rectifications or any other type of documents of which it should have knowledge.
- d. To prepare the dispatch of the issues, to draft and to authorize the minutes of the sessions.
- e. To issue certifications of approved consultations, judgments and agreements.
- f. To assist and to advise the Committee for Assessment and Improvement of the Veterinary Degree Curriculum in the execution of its duties.
- g. If the Secretary is a member of the Committee, he/she will exercise those rights that correspond as such.
- h. Other functions inherent to the status of Secretary.

2. The appointment and cessation of the Secretary shall be made by agreement of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum.

3. In cases of vacancy, absence, illness or other legal cause, the Secretary shall be replaced by the member of the Committee appointed for this purpose, at the proposal of the President.

Article 7. External Agents

The External Agents will participate in the meetings of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum, and especially in those related to decision-making, review and proposals for the improvement of the Degrees.

Article 8. Rights of the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum

The members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum shall have the right to:

- a) Receive, with a minimum of 48 hours in the event of ordinary sessions and 24 hours in the extraordinary sessions, the call of meetings and the agenda of the same.
- b) Have at their disposal, in the same period, all the documentation containing the necessary information for the treatment of the matters that appear in the agenda.
- c) Participate in the debates of the sessions.
- d) Exercise their right to vote and to formulate their particular vote, as well as to express the meaning of their vote and the reasons that justify it. The exercise of the vote is personal, non-transferable and non-transferable.
- e) Formulate requests and questions.
- f) Obtain the necessary information to fulfil the assigned functions.
- g) Other functions inherent to their condition.

Article 9. Responsibilities of the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum

The responsibilities of the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum are:

- a) To attend the sessions of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum, as well as to contribute to its normal operation, participating in as many activities as are precise.
- b) To submit to the Committee for Assessment and Improvement of the Veterinary Degree Curriculum the issues that affects it.
- c) To keep secrecy in cases where the nature of the information so requires.
- d) To refrain from intervening in the decisions of the Committee when incurring in any of the cases provided for in the legislation of the legal regime of public administrations.

Article 10. Loss of membership of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum

Membership of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum is lost:

- a) By voluntary resignation formalized in writing to the President of the Committee
- b) Upon termination of the position or group for which he/she is a member of the Committee.
- c) For incapacity to perform the functions inherent to that condition.
- d) By death.
- e) By a firm judicial decision that annuls its election or proclamation.

- f) Upon completion of the representation of the period for which he/she was appointed.
- g) Upon termination agreed by the Faculty Council.

TITLE 2. OPERATION OF THE COMMITTEE FOR ASSESSMENT AND IMPROVEMENT OF THE VETERINARY DEGREE CURRICULUM

Article 11. Meetings

1. The Committee for Assessment and Improvement of the Veterinary Degree Curriculum will meet in ordinary and extraordinary sessions.
2. In ordinary sessions, it shall meet at least three times in each academic year, coinciding with the beginning, middle and end of course, approximately.
3. The Committee shall meet in extraordinary sessions at the initiative of the President or at the request of a minimum of 20% of the total membership. These meetings shall be convened at least twenty-four hours in advance and shall contain the agenda of the meeting.
4. For reasons of urgency, the President may, with the agreement of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum, be able to call a new meeting orally during a meeting, sending urgent notification to the non-attending members.

Article 12. Call and Agenda.

1. The members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum must receive the call, with the agenda, at least 48 hours in advance, except in the case of extraordinary sessions that will be 24 hours.
2. The call, together with the agenda and the corresponding documentation, will be made by any means that allows make a record of receipt. Whenever available means permit, the call and the remaining documents will be sent by electronic means, being the originals deposited in the respective secretariat at the disposal of the members.
3. The agenda shall be set by the President, and shall necessarily include those points that have been requested by 20% of the members of the Committee. No matter not included in the Agenda shall be subject to deliberation, voting or agreement, unless all the members of the Committee are present and the urgency is declared by the favourable vote of the majority of the members.
4. The Agenda may specify which matters may be approved, if there is no opposition, without the need for deliberation.

Article 13. Electronic communications.

1. Communications to the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will be practiced using the telematic means that the University makes available to the university community. The member of the Committee who does not have the means or does not want to receive the documentation by telematic means will communicate it to the Secretary of the Committee.

For that purpose, once their designation has been made, the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum shall provide the Secretary with an e-mail address, to which communications shall be addressed. The members of the Committee shall communicate to the Secretary any changes in the e-mail address that may occur.

2. The telematic communication to the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will only be valid if there is evidence of reception, dates and the full content of the communications, and the sender and the recipient are reliably identified.

3. The communication shall be understood to be performed for all legal purposes at the time of access to its contents in the electronic address provided. When there is a record of receipt of the notification in the electronic address, four calendar day's elapse, for the convocations of ordinary sessions and twenty-four hours, for the convocations of extraordinary sessions, without access to its content, it will be understood that the notification has been rejected, unless the technical or material impossibility of access is established.

Article 14. Development of sessions

1. The Committee for Assessment and Improvement of the Veterinary Degree Curriculum will be validly constituted for the purpose of holding sessions, deliberations and making agreements, at first call when at least half of its members, the President and the Secretary are present, and at second call, half an hour later, when at least one-third of its members, the President and the Secretary are present.

2. Participation in deliberations and voting is personal and non-delegable.

3. No one shall be interrupted while speaking, except by the President.

4. In order to proceed to the discussion, the President shall open a series of speeches. In view of the requests, the President may determine the time limitations of their use.

5. The closure of the discussion may be agreed upon by the President, upon prior notice, once those who have requested the floor or have renounced.

6. Once the discussion has been closed, the President will present the proposal or proposals that are the subject of a vote.

7. The members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum may be called to order when they interrupt or otherwise alter the order of the sessions or when they intend to continue speaking after they have been withdrawn.

After having been warned three times at the same Session, the President may impose a ban on attending the rest of the session.

Article 15. Order issues.

1. Order issues shall be considered, inter alia, the proposed postponement of the debate, the limitations on the interventions, the proposal for suspension or the proposal for a vote.
2. Points of order shall be decided, if necessary, by a show of hands.

Article 16. Agreements.

1. The agreements shall be adopted by simple majority, by assent or by public vote by show of hands, at the proposal of its President. In case of a tie the president has a casting vote. In any case, the proposed modification of the Operating Regulations of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will require its approval by an absolute majority.
2. Exceptionally, agreements may be adopted by secret ballot at the request of one of its members. The voting related to people will always be secret. Once a proposal has been made by the President, it will be considered approved by assent, if no member requests the vote or presents objection or opposition to it.
3. Upon the announcement of the beginning of a vote by the President, no member may interrupt it except to raise a point of order relating to the manner in which the voting is being conducted.
4. No matter that is not expressly included in the Agenda can be voted, unless all the members of the Committee are present, it is proposed at the beginning of the session, and the urgency of the matter is declared by the favourable vote of the Committee by majority.

Article 17. Minutes.

1. Minutes of each meeting held by the Committee for Assessment and Improvement of the Veterinary Degree Curriculum shall be recorded by the Secretary, who shall necessarily specify the attendees, the agenda of the meeting, the circumstances of the place and the time at which it was held, the Points of the deliberations, as well as the content of the agreements adopted.
2. The minutes shall contain the agreement or agreements adopted. Likewise, at the request of the respective members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum, a vote contrary to the agreement, their abstention and the reasons justifying it or the sense of their favourable vote shall be included. Any member has the right to request the full transcription of his intervention or proposal, provided that he or she furnishes, at the time, or within the term indicated by the President, the text that corresponds faithfully to his intervention, thus recording in the minutes or joining a copy to the same.

3. Members who disagree with the majority agreement may formulate a private vote in writing within forty-eight hours, which shall be incorporated into the approved text. Individual votes shall be limited to explaining the reasons for the discrepancy.
4. When the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum vote against or abstain, they will be exempt from any responsibility that may arise from the agreements, if any.
5. The minutes shall be approved at the same or at the next session, although the Secretary may nevertheless issue certification on the specific agreements that have been adopted, without prejudice to the subsequent approval of the minutes. In the certifications of agreements issued prior to the approval of the minutes, this circumstance shall be expressly stated.
6. The Minutes shall be signed, on the last page and in the margin of each of the others, by the Secretary and shall be endorsed by the President. The sheets should be numbered sequentially, starting with number 1. The minutes will be filed in the secretariat of the Committee under the responsibility of the Secretary.
7. The Secretary shall send a copy of the minutes of each session to all members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum as soon as possible, and in any case, together with the convening of the next session of the Committee at which it is to be approved.
8. The minutes of one session shall be approved at the beginning of the next session.
9. Any member of the Committee who does not agree with the content of the Minutes may request in writing any modifications that may be considered. The Secretary may not estimate the correctness of the amendments, in which case may reasonably reject the amendments that arise.

Article 18. Agreement effects.

1. The agreements and decisions adopted by the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will have the appropriate effects according to their content and that established in current regulations.
2. The agreements and decisions adopted by the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will be communicated to the interested parties to make the necessary changes and improvements. They will also be submitted to the Faculty Council for its knowledge and, if necessary, for ratification.

TITLE 3. ACTING COMMITTEE FOR ASSESSMENT AND IMPROVEMENT OF THE VETERINARY DEGREE CURRICULUM

Article 19. Acting Intervention

The members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum, once their term has expired, will remain acting until the election of the new members and will limit their management to the adoption of agreements on procedural matters, refraining from adopting, unless duly accredited cases of urgency or reasons of general interest for the Degrees, whose accreditation expressly justifies it.

TITLE 4. MODIFICATION OF THE OPERATING REGULATIONS OF THE COMMITTEE FOR ASSESSMENT AND IMPROVEMENT OF THE VETERINARY DEGREE CURRICULUM

Article 20. Modification of the Operating Regulations

The proposal to modify these operating regulations will require the favourable votes of the absolute majority of the members of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum. Once approved, the proposal will be submitted to the Faculty Council for approval.

FINAL REGULATION

Unique. - The present Operating Regulations of the Committee for Assessment and Improvement of the Veterinary Degree Curriculum will come into force the day after its publication in the Official Bulletin of the Complutense University of Madrid.

4.3. Student Internal Survey on Subjects FVM



FACULTY OF VETERINARY SURVEY ON COURSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
a																							
b																							
c																							
d																							
e																							

You are going to participate in the **monitoring survey by course**. The survey consists of 23 questions distributed in three groups according to the rating scale. The answer should be marked in the table above, where the heading of each column corresponds to the question number and that of the rows to the answers. At the bottom right of this sheet is indicated how to mark correctly the answer in the table (fill only one of the two halves, in case of mistake, fill in the two halves to cancel that answer and mark the chosen option with a nail). **Any comments or observations can be written on the back of the sheet.**
THANK YOU VERY MUCH FOR YOUR COOPERATION.

Scale: a- Less than 50%; b- Between 50% and 70%; c- More than 70%; d- Not applicable

1. My % attendance to lecture classes.
2. My % attendance to practice classes.
3. My % attendance at the seminars.
4. My % of attendance to the supervised self-learning work.
5. My % attendance to tutorials.

Scale: a- Between 1 and 2 hours; b- Between 2 and 4 hours; c- Between 4 and 8 hours; d- More than 8 hours; e- Not applicable

6. How many time have you dedicated to the learning of the lecture classes?
7. How many time have you dedicated to the preparation/perform of the practice classes?
8. How many time have you dedicated to the learning/preparation of the seminars?
9. How many time have you dedicated to the preparation of the supervised self-learning works?

Scale: a- Nothing agree; b- Little agree; c- Agree; d- Strongly agree; e- Totally agree

10. The entire program has been taught as specified in the course information
11. The schedule and the number of hours established in the course information were accomplished.
12. The contents of this course are overlapped or repeated with those of some other of the Degree curriculum.

13. The time scheduled for the lectures of the different topics is adequate.
14. The time scheduled for the rest of activities (practices, seminars and supervised self-learning works) is adequate.
15. Practices, seminars and supervised self-learning works help to understand and to apply theoretical knowledge.
16. Lectures are relevant for the development of professional activity.
17. Practices, seminars and supervised self-learning work are relevant to the development of professional activity.
18. Practices, seminars and supervised self-learning work stimulate the interest in the course.
19. The coordination among the teachers of the course is adequate.
20. The organization of practices, seminars and supervised self-learning work is adequate.
21. Indicate which material of the following has been included in the Virtual Campus (you can select more than one answer):
a- Course information; b- Lectures; c- Bibliography; web sites and other complementary study material; d- Practice guides; supervised self-learning work material; e- Evaluation test; a- b- none virtualized.
22. The evaluation criteria indicated in the course information have been followed.
23. In general, I am satisfied with this course.

Rellene una de las dos mitades para seleccionar la opción
Para anular, rellene las dos mitades
Procure rellenar sin salirse del recuadro

Ejemplo:

	1	2	3
a			
b			

→ 1-a
2-b
3-b

COURSE:

YEAR:

Date:

4.4. Student Internal Satisfaction Survey FVM

Survey of the STUDENT satisfaction on the courses of the Degree in Veterinary

Once completed the adaptation of the new Degree is time to obtain a global vision and to identify the strengths and weaknesses of it. This survey aims to be a first approximation to the general opinion of the students regarding the Degree that will be completed with other actions that allow a global analysis. Thank you very much for your participation.

***Mandatory**

1. Course *

Select from the list the course that has been assigned to you to evaluate

Choose only one.

- ☐ AGRONOMY, ECONOMICS AND VETERINARY BUSINESS MANAGEMENT
- ☐ ANATOMY AND EMBRYOLOGY I
- ☐ ANATOMY AND EMBRYOLOGY II
- ☐ ANIMAL BREEDING IN SPECIES OF VETERINARY INTEREST
- ☐ ANIMAL PHYSIOLOGY II
- ☐ ANIMAL PRODUCTION BASIS II:
- ☐ ANIMAL SCIENCE BASES I: ETHNOLOGY, ETHOLOGY, ANIMAL WELFARE AND VETERINARY HYGIENE
- ☐ ANIMAL SCIENCE PRACTICUM
- ☐ AQUACULTURE AND FISH PATHOLOGY (elective)
- ☐ BIOCHEMISTRY AND MOLECULAR BIOLOGY
- ☐ BREEDING AND ANIMAL SCIENCE I
- ☐ BREEDING AND ANIMAL SCIENCE II
- ☐ CHEMISTRY, ZOOLOGY AND BOTANY APPLIED TO VETERINARY
- ☐ CLINICAL DIAGNOSIS BY LABORATORY (elective)
- ☐ CLINICAL MEDICINE OF EXOTIC PETS (elective)
- ☐ CLINICAL PHARMACOLOGY AND PHARMACOTHERAPEUTICS
- ☐ CLINICAL PROPAEDEUTICS
- ☐ CLINICAL VETERINARY PRACTICUM
- ☐ DEONTOLOGY, LEGAL MEDICINE AND LEGISLATION
- ☐ EPIDEMIOLOGY
- ☐ FOOD HYGIENE AND INSPECTION & FOOD SAFETY
- ☐ FOOD SCIENCE PRACTICUM
- ☐ FOOD TECHNOLOGY
- ☐ GENERAL PATHOLOGY
- ☐ GENERAL SURGERY AND ANAESTHESIA
- ☐ GENETICS
- ☐ HISTORY, DOCUMENTS AND THEORY OF VETERINARY (elective)

- INFECTIOUS DISEASES
- LABORATORY ANIMALS (elective)
- LARGE ANIMAL INTERNAL MEDICINE
- MICROBIOLOGY AND IMMUNOLOGY
- NOSOLOGY AND PHYSIOPATHOLOGY
- OBSTETRICS AND REPRODUCTION I
- OBSTETRICS AND REPRODUCTION II
- PARASITIC DISEASES
- PARASITOLOGY
- PHARMACOLOGY AND PHARMACY
- PHYSICS AND BIOSTATISTICS APLIED TO VETERINARY
- PREVENTIVE MEDICINE, ANIMAL HEALTH POLICY, ZONOSIS AND PUBLIC HEALTH
- RADIOLOGY AND DIAGNOSTIC IMAGING
- SMALL ANIMAL INTERNAL MEDICINE
- SPECIAL SURGERY
- SPECIAL VETERINARY PATHOLOGY
- TOXICOLOGY
- VETERINARY ANIMAL NUTRITION
- VETERINARY HISTOLOGY
- VETERINARY PHYSIOLOGY I
- VETERINARY SCIENCES AND ENVIRONMENT (elective)

2. 1. What is your degree of satisfaction in general with the Degree

Choose only one.

1	2	3	4	5
☐	☐	☐	☐	☐
Totally Unsatisfied				Totally satisfied

3. Comments on the general degree of satisfaction with the Degree

4. What is your degree of satisfaction with the course you are evaluating

Choose only one.

1	2	3	4	5
☐	☐	☐	☐	☐
Totally Unsatisfied				Totally satisfied

5. Comments on the degree of satisfaction with the course

6. What is your degree of satisfaction with the year in which the course you are evaluating is scheduled

Choose only one.

1	2	3	4	5
☐	☐	☐	☐	☐
Totally Unsatisfied				Totally satisfied

7. In the case you are NOT satisfied with the year, please indicate which would be the most appropriate in your opinion

Choose only one.

1	2	3	4	5
☐	☐	☐	☐	☐

8. Explain why you would move it to that year

9. What other courses do you think you would need to have passed previously to enroll on this course to achieve the maximum profit of it?

Choose as many as you consider.

- ☐ AGRONOMY, ECONOMICS AND VETERINARY BUSINESS MANAGEMENT
- ☐ ANATOMY AND EMBRYOLOGY I
- ☐ ANATOMY AND EMBRYOLOGY II
- ☐ ANIMAL BREEDING IN SPECIES OF VETERINARY INTEREST
- ☐ ANIMAL PHYSIOLOGY II
- ☐ ANIMAL PRODUCTION BASIS II:
- ☐ ANIMAL SCIENCE BASES I: ETHNOLOGY, ETHOLOGY, ANIMAL WELFARE AND VETERINARY HYGIENE
- ☐ ANIMAL SCIENCE PRACTICUM
- ☐ AQUACULTURE AND FISH PATHOLOGY (elective)
- ☐ BIOCHEMISTRY AND MOLECULAR BIOLOGY
- ☐ BREEDING AND ANIMAL SCIENCE I
- ☐ BREEDING AND ANIMAL SCIENCE II
- ☐ CHEMISTRY, ZOOLOGY AND BOTANY APPLIED TO VETERINARY

- CLINICAL DIAGNOSIS BY LABORATORY (elective)
- CLINICAL MEDICINE OF EXOTIC PETS (elective)
- CLINICAL PHARMACOLOGY AND PHARMACOTHERAPEUTICS
- CLINICAL PROPAEDEUTICS
- CLINICAL VETERINARY PRACTICUM
- DEONTOLOGY, LEGAL MEDICINE AND LEGISLATION
- EPIDEMIOLOGY
- FOOD HYGIENE AND INSPECTION & FOOD SAFETY
- FOOD SCIENCE PRACTICUM
- FOOD TECHNOLOGY
- GENERAL PATHOLOGY
- GENERAL SURGERY AND ANAESTHESIA
- GENETICS
- HISTORY, DOCUMENTS AND THEORY OF VETERINARY (elective)
- INFECTIOUS DISEASES
- LABORATORY ANIMALS (elective)
- LARGE ANIMAL INTERNAL MEDICINE
- MICROBIOLOGY AND IMMUNOLOGY
- NOSOLOGY AND PHYSIOPATHOLOGY
- OBSTETRICS AND REPRODUCTION I
- OBSTETRICS AND REPRODUCTION II
- PARASITIC DISEASES
- PARASITOLOGY
- PHARMACOLOGY AND PHARMACY
- PHYSICS AND BIostatISTICS APLIED TO VETERINARY
- PREVENTIVE MEDICINE, ANIMAL HEALTH POLICY, ZOONOSIS AND PUBLIC HEALTH
- RADIOLOGY AND DIAGNOSTIC IMAGING
- SMALL ANIMAL INTERNAL MEDICINE
- SPECIAL SURGERY
- SPECIAL VETERINARY PATHOLOGY
- TOXICOLOGY
- VETERINARY ANIMAL NUTRITION
- VETERINARY HISTOLOGY
- VETERINARY PHYSIOLOGY I
- VETERINARY SCIENCES AND ENVIRONMENT (elective)

10. What is the degree of satisfaction with the number of hours the course you are evaluating has

Choose only one.

1	2
☐	☐
Unsatisfied	Satisfied

11. In the case you are NOT satisfied, indicate if you consider more or less hours and explain why

12. Degree of satisfaction with the amount of hours of lectures in the course

Choose only one.

1	2	3	4	5
☐	☐	☐	☐	☐

13. In the case you are NOT satisfied with the amount of hours of lectures, explain the reasons

14. Degree of satisfaction with the amount of hours of practice in the course

Choose only one.

1	2	3	4	5
☐	☐	☐	☐	☐

15. In the case you are NOT satisfied with the amount of hours of practices, explain the reasons

16. Comment any suggestion that would help to improve the Degree in Veterinary

Con la tecnología de



4.5. Staff Internal Satisfaction Survey FVM

Survey of the ACADEMIC STAFF satisfaction on the courses of the Degree in Veterinary

Once completed the adaptation of the new Degree is time to obtain a global vision and to identify the strengths and weaknesses of it. This survey aims to be a first approximation to the general opinion of the academic staff regarding the Degree that will be completed with other actions that allow a global analysis. Thank you very much for your participation.

***Mandatory**

1. Course *

Select from the list only one course

- ☐ AGRONOMY, ECONOMICS AND VETERINARY BUSINESS MANAGEMENT
- ☐ ANATOMY AND EMBRYOLOGY I
- ☐ ANATOMY AND EMBRYOLOGY II
- ☐ ANIMAL BREEDING IN SPECIES OF VETERINARY INTEREST
- ☐ ANIMAL PHYSIOLOGY II
- ☐ ANIMAL PRODUCTION BASIS II:
- ☐ ANIMAL SCIENCE BASES I: ETHNOLOGY, ETHOLOGY, ANIMAL WELFARE AND VETERINARY HYGIENE
- ☐ ANIMAL SCIENCE PRACTICUM
- ☐ AQUACULTURE AND FISH PATHOLOGY (elective)
- ☐ BIOCHEMISTRY AND MOLECULAR BIOLOGY
- ☐ BREEDING AND ANIMAL SCIENCE I
- ☐ BREEDING AND ANIMAL SCIENCE II
- ☐ CHEMISTRY, ZOOLOGY AND BOTANY APPLIED TO VETERINARY
- ☐ CLINICAL DIAGNOSIS BY LABORATORY (elective)
- ☐ CLINICAL MEDICINE OF EXOTIC PETS (elective)
- ☐ CLINICAL PHARMACOLOGY AND PHARMACOTHERAPEUTICS
- ☐ CLINICAL PROPAEDEUTICS
- ☐ CLINICAL VETERINARY PRACTICUM
- ☐ DEONTOLOGY, LEGAL MEDICINE AND LEGISLATION
- ☐ EPIDEMIOLOGY
- ☐ FOOD HYGIENE AND INSPECTION & FOOD SAFETY
- ☐ FOOD SCIENCE PRACTICUM
- ☐ FOOD TECHNOLOGY
- ☐ GENERAL PATHOLOGY
- ☐ GENERAL SURGERY AND ANAESTHESIA
- ☐ GENETICS
- ☐ HISTORY, DOCUMENTS AND THEORY OF VETERINARY (elective)
- ☐ INFECTIOUS DISEASES

- LABORATORY ANIMALS (elective)
- LARGE ANIMAL INTERNAL MEDICINE
- MICROBIOLOGY AND IMMUNOLOGY
- NOSOLOGY AND PHYSIOPATHOLOGY
- OBSTETRICS AND REPRODUCTION I
- OBSTETRICS AND REPRODUCTION II
- PARASITIC DISEASES
- PARASITOLOGY
- PHARMACOLOGY AND PHARMACY
- PHYSICS AND BIOSTATISTICS APLIED TO VETERINARY
- PREVENTIVE MEDICINE, ANIMAL HEALTH POLICY, ZONOSIS AND PUBLIC HEALTH
- RADIOLOGY AND DIAGNOSTIC IMAGING
- SMALL ANIMAL INTERNAL MEDICINE
- SPECIAL SURGERY
- SPECIAL VETERINARY PATHOLOGY
- TOXICOLOGY
- VETERINARY ANIMAL NUTRITION
- VETERINARY HISTOLOGY
- VETERINARY PHYSIOLOGY I
- VETERINARY SCIENCES AND ENVIRONMENT (elective)

2. 1. What is your degree of satisfaction in general with the Degree?

Choose only one.

1	2	3	4	5
☐	☐	☐	☐	☐
Totally Unsatisfied				Totally satisfied

3. Comments on the general degree of satisfaction with the Degree

4. What is your degree of satisfaction with the course you are evaluating?

Choose only one.

1	2	3	4	5
☐	☐	☐	☐	☐
Totally Unsatisfied				Totally satisfied

5. Comments on the degree of satisfaction with the course

6. What is your degree of satisfaction with the year in which the course you are evaluating is scheduled?

Choose only one.

1	2	3	4	5
☐	☐	☐	☐	☐
Totally Unsatisfied				Totally satisfied

7. In the case you are NOT satisfied with the year, please indicate which would be the most appropriate in your opinion

Choose only one.

1	2	3	4	5
☐	☐	☐	☐	☐

8. Explain why you would move it to that year

9. What other courses do you think the students would need to have passed previously to enroll on this course to achieve the maximum profit of it?

Choose as many as you consider.

- ☐ AGRONOMY, ECONOMICS AND VETERINARY BUSINESS MANAGEMENT
- ☐ ANATOMY AND EMBRYOLOGY I
- ☐ ANATOMY AND EMBRYOLOGY II
- ☐ ANIMAL BREEDING IN SPECIES OF VETERINARY INTEREST
- ☐ ANIMAL PHYSIOLOGY II
- ☐ ANIMAL PRODUCTION BASIS II:
- ☐ ANIMAL SCIENCE BASES I: ETHNOLOGY, ETHOLOGY, ANIMAL WELFARE AND VETERINARY HYGIENE
- ☐ ANIMAL SCIENCE PRACTICUM
- ☐ AQUACULTURE AND FISH PATHOLOGY (elective)
- ☐ BIOCHEMISTRY AND MOLECULAR BIOLOGY
- ☐ BREEDING AND ANIMAL SCIENCE I
- ☐ BREEDING AND ANIMAL SCIENCE II
- ☐ CHEMISTRY, ZOOLOGY AND BOTANY APPLIED TO VETERINARY
- ☐ CLINICAL DIAGNOSIS BY LABORATORY (elective)

- CLINICAL MEDICINE OF EXOTIC PETS (elective)
- CLINICAL PHARMACOLOGY AND PHARMACOTHERAPEUTICS
- CLINICAL PROPAEDEUTICS
- CLINICAL VETERINARY PRACTICUM
- DEONTOLOGY, LEGAL MEDICINE AND LEGISLATION
- EPIDEMIOLOGY
- FOOD HYGIENE AND INSPECTION & FOOD SAFETY
- FOOD SCIENCE PRACTICUM
- FOOD TECHNOLOGY
- GENERAL PATHOLOGY
- GENERAL SURGERY AND ANAESTHESIA
- GENETICS
- HISTORY, DOCUMENTS AND THEORY OF VETERINARY (elective)
- INFECTIOUS DISEASES
- LABORATORY ANIMALS (elective)
- LARGE ANIMAL INTERNAL MEDICINE
- MICROBIOLOGY AND IMMUNOLOGY
- NOSOLOGY AND PHYSIOPATHOLOGY
- OBSTETRICS AND REPRODUCTION I
- OBSTETRICS AND REPRODUCTION II
- PARASITIC DISEASES
- PARASITOLOGY
- PHARMACOLOGY AND PHARMACY
- PHYSICS AND BIostatISTICS APLIED TO VETERINARY
- PREVENTIVE MEDICINE, ANIMAL HEALTH POLICY, ZOONOSIS AND PUBLIC HEALTH
- RADIOLOGY AND DIAGNOSTIC IMAGING
- SMALL ANIMAL INTERNAL MEDICINE
- SPECIAL SURGERY
- SPECIAL VETERINARY PATHOLOGY
- TOXICOLOGY
- VETERINARY ANIMAL NUTRITION
- VETERINARY HISTOLOGY
- VETERINARY PHYSIOLOGY I
- VETERINARY SCIENCES AND ENVIRONMENT (elective)

10. What is the degree of satisfaction with the number of ECTS credits assigned to the course you are evaluating?

Choose only one.

1	2
☐	☐
Unsatisfied	Satisfied

11. In the case you are NOT satisfied, indicate how many ECTS you consider more appropriate and explain why

12. Degree of satisfaction with the presence assigned to the course

Choose only one.

1	2
☐	☐
Unsatisfied	Satisfied

13. In the case you are NOT satisfied with the amount of presence, indicate what level of presence you consider more appropriate and explain the reasons

14. Degree of satisfaction with the amount of lectures in the course

Choose only one.

1	2	3	4	5
☐	☐	☐	☐	☐

15. In the case you are NOT satisfied with the amount of lectures, explain the reasons

16. Degree of satisfaction with the amount of hours of practice in the course

Choose only one.

1	2	3	4	5
☐	☐	☐	☐	☐

17. In the case you are NOT satisfied with the amount of hours of practices, explain the reasons

18. Comment any suggestion that would help to improve the Degree in Veterinary

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4.6. Student External Survey of Teaching Assessment

Questionnaire of Teaching Activity (DOCENTIA 2015-16)

Teacher:

Degree:

Course:

Gender:

Age:

Do you do any type of paid activity?

Number of hours you dedicate to prepare this course at home:

Percentage of attendance at lectures and practice classes:

Percentage of attendance at tutorials with this teacher:

The teacher teaches:

- ☐ Lectures
- ☐ Practices
- ☐ Both

QUESTIONS ABOUT THE TEACHER

Scale: 1 (Nothing agree) to 5 (Totally agree)

1. The teacher informs clearly about the objectives of the course.
2. The teacher informs clearly about the evaluation system.
3. The teacher informs clearly about teaching activities.
4. The recommended bibliography is useful for studying the course.
5. The teacher organizes and structures the classes well.
6. The teacher uses the Virtual Campus as a learning tool.
7. The teacher explains clearly and comprehensibly.
8. The evaluation system allows the student to reflect the knowledge and skills acquired.
9. The teacher accomplishes with the program of the course.
10. The teacher accomplishes with established class schedules.
11. The teacher accomplishes with the tutorial system.
12. The teacher accomplishes with the evaluation system on which he has informed.
13. The teacher is accessible to students.
14. The teacher maintains a correct behavior with the students.
15. The teacher arouses my interest in the course.
16. The teaching work of this teacher has helped me to acquire knowledge and skills.
17. In my opinion is a good teacher.
18. I am satisfied with the teaching work of the teacher.

4.7. Student External Satisfaction Survey UCM

(General 2014-15)



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QUESTIONNAIRE OF SATISFACTION OF THE STUDENT

The purpose of this questionnaire is to gather the opinion of the students on different aspects of the teaching of the Degree and the services offered. The information collected will be treated confidentially.

HIGHER YEAR ENROLLED [1] [2] [3] [4] [5] [6]

(*) In the case of being enrolled in two degrees, fill out a questionnaire for each of them.

GENERAL INFORMATION

Gender	Age	Do you do any type of paid activity?
Man ☐		Yes ☐
Woman ☐		No ☐

Percentage of attendance

0-25% ☐	26-50% ☐	51-75% ☐	+76-100% ☐

Indicate, on a scale of 1 to 10, where 1 is the lowest level and 10 is the highest, the degree or level of accomplishment, degree of agreement and level of satisfaction with the following aspects:

(It is about expressing the assessment of teachers, classes, etc. of the Degree).

	EVALUATION									
	1	2	3	4	5	6	7	8	9	10
1 Level of accomplishment with the daily classes schedule	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2 Level of accomplishment with the tutorial schedule	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
3 Level of accomplishment with the courses programs	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
4 Level of accomplishment with the grade deadlines	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
5 Level of usefulness of the Virtual Campus	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
6 Level of usefulness of the live tutorials	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
7 The topics of the courses are organized	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
8 Level of overlapping of topics among courses	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

SATISFACTION LEVEL

9	Training received in relation to the competences linked to the Degree	☐	☐	☐	☐	☐	☐	☐	☐	☐
10	Facilities for teaching (classrooms, study rooms)	☐	☐	☐	☐	☐	☐	☐	☐	☐
11	Teaching methodology of the academic staff	☐	☐	☐	☐	☐	☐	☐	☐	☐
12	Available information on the website of the Centre	☐	☐	☐	☐	☐	☐	☐	☐	☐
13	Methods of complaints and suggestions	☐	☐	☐	☐	☐	☐	☐	☐	☐
14	Library service	☐	☐	☐	☐	☐	☐	☐	☐	☐
15	Task distribution along the year	☐	☐	☐	☐	☐	☐	☐	☐	☐
16	Facilities and resources to support teaching (laboratories, workshops, computer rooms, projectors)	☐	☐	☐	☐	☐	☐	☐	☐	☐
17	Usefulness of contents in the Teaching Guide	☐	☐	☐	☐	☐	☐	☐	☐	☐
18	Criteria for evaluation of courses	☐	☐	☐	☐	☐	☐	☐	☐	☐
19	Overall satisfaction with the Degree	☐	☐	☐	☐	☐	☐	☐	☐	☐

If you have participated in the following actions, please indicate your satisfaction level

20	Mobility (Sócrates/Erasmus, Séneca, etc.)	☐	☐	☐	☐	☐	☐	☐	☐	☐
21	External or pre-professional practices	☐	☐	☐	☐	☐	☐	☐	☐	☐

COMMENTS

THANK YOU FOR YOUR COOPERATION!

4.8. Academic Staff External Satisfaction Survey UCM

(General 2014-15)



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QUESTIONNAIRE OF SATISFACTION OF THE ACADEMIC STAFF

Only for teaching staff that teaches in this Degree

The purpose of this questionnaire is to gather the opinion of the academic staff on different aspects of the teaching of the Degree and the services offered. The information collected will be treated confidentially.

GENERAL INFORMATION

Gender	Age	What is your professional category?		Temporary
Man ☐	- 30 years ☐	Staff	Hired staff	YES ☐ NO ☐
Woman ☐	30 – 55 years ☐	CU ☐	Ayudante ☐	
	+ 55 years ☐	TU ☐	Prof. Ayudante Doctor ☐	
		CEU ☐	Prof. Asociado T. Completo ☐	
		TEU ☐	Prof. Asociado T. Parcial ☐	
			Prof. Contratado Doctor ☐	
			Prof. Colaborador ☐	
			Prof. Emérito ☐	
			Prof. Visitante ☐	
			Lector ☐	

University teaching experience (in No. of years)	

No. Of Degrees of EEES (Undergraduate + Master) you are involved in teaching:	1	2	3	4 or more
	☐	☐	☐	☐

Percentage of students attending the course by group

0-25% ☐	26-50% ☐	51-75% ☐	+76-100% ☐

Please, indicate your degree of satisfaction with the following aspects of the Degree : (The satisfaction scale ranges from 1 to 10 where 1 is the lowest satisfaction rate and 10 is the highest)		EVALUATION									
		1	2	3	4	5	6	7	8	9	10
1	Your academic background is related to the degree/s you teach	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2	Bibliographic resources for the study	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
3	The training of the teacher is taken into account in the teaching assignment	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
4	Distribution of the teaching load between lectures and practical classes	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
5	Teaching methodologies	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
6	Mechanisms for coordination of this Degree	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
7	Support of the Centre in the tasks of management of the teaching activity	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
8	Facilities and didactic resources to teach	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9	Taking advantage of the tutorials by the students	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
10	Degree of student involvement	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
11	Usefulness of the Virtual Campus for the teaching activity	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
12	Cooperation of the support staff	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
13	Organization of the teaching schedules of different courses	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
14	Satisfaction with the developed teaching activity	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

COMMENTS

THANK YOU FOR YOUR COOPERATION!

4.9. Support Staff External Satisfaction Survey UCM

Survey of the SUPPORT STAFF satisfaction on the Degree in Veterinary

***Mandatory**

1. I know well my roles and responsibilities.

Choose only one

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

2. My direct responsible organize well my tasks

Choose only one

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

3. There are other people that know my tasks and could substitute me

Choose only one

- ☐ Yes
- ☐ No

4. The tasks I perform are those that correspond to my job

Choose only one

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

5. I am satisfied with my job

Choose only one

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

6. I am satisfied with the communication with other sections of the

Choose only one

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

7. I am satisfied with the communication with the Head Team of the Centre

Choose only one

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

8. I am satisfied with the communication with the academic staff

Choose only one

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

9. I am satisfied with the communication with Manager

Choose only one

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

10. I am satisfied with the communication with my colleagues

Choose only one

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

11. I am satisfied with the communication with the students

Choose only one

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

12. I feel I am part of a work team

Choose only one

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

13. The UCM offers continuing formation courses related with my job

Choose only one

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

14. The UCM offers opportunities to develop my professional career

Choose only one

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

15. The facilities of the unit (surface, furnishing, equipment, technicians, ...) facilitate my work and the services provided to users

Choose only one

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

16. The facilities where I do my work are safe

Choose only one

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

17. In general, I am satisfied with my job in the Centre

Choose only one.

- ☐ Totally disagree
- ☐ Disagree
- ☐ Neither agree nor disagree
- ☐ Agree
- ☐ Totally agree
- ☐ Not applicable

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4.10. External Agent External Satisfaction Survey UCM



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QUESTIONNAIRE OF SATISFACTION OF THE EXTERNAL AGENTS

Only for external agents

Satisfaction Survey for External Agents. Degree in Veterinary. FVM. UCM.

- Academic course 20../.. -

In accordance with the Internal Quality Assurance System of the UCM Degrees, it is necessary to know periodically the opinion of the different actors involved in the development of the Official Degrees.

The External Agents members of the Quality Commissions are considered an important element for the quality and continuous improvement of the Degrees, for their contribution as personnel external to the University, so it is essential to conduct a yearly satisfaction survey to know the perception of these about the work performed.

Please complete this questionnaire, in order to gather information about your general perception and your satisfaction as a member of the Quality Committee to which you belong. Your opinion is of great value to the University.

Please evaluate the following sections on a scale of 0 to 10:

Please, indicate your degree of satisfaction with the following aspects of the Degree : (The satisfaction scale ranges from 1 to 10 where 1 is the lowest satisfaction rate and 10 is the highest)		EVALUATION										
		0	1	2	3	4	5	6	7	8	9	10
1	Work Methodology of the Quality Commission (call, operation, decision-making procedure, etc.)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2	Participation in the decision making that affect the evolution of the Degree	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
3	Development and evolution of the Degrees in which you participate as an external agent	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
4	Overall satisfaction with the activity carried out by the Quality Commission	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

COMMENTS:

Appendix 5.

List of scientific publications from the Establishment's academic staff in peer reviewed journals during the last three academic years

LIST OF SCIENTIFIC PUBLICATIONS FROM THE ESTABLISHMENT'S ACADEMIC STAFF IN PEER REVIEWED JOURNALS DURING THE PERIOD 2013-2015

1. Abreu, M., D. Aguado, J. Benito, J. Garcia-Fernandez, and I. A. G. de Segura. 2015. "Hyperalgesia and increased sevoflurane minimum alveolar concentration induced by opioids in the rat A randomised experimental study." *European Journal of Anaesthesiology* 32 (4):232-241. doi: 10.1097/eja.000000000000188.
2. Abreu, M., D. Aguado, J. Benito, J. Garcia-Fernandez, and I. A. G. de Segura. 2015. "Tramadol-induced hyperalgesia and its prevention by ketamine in rats A randomised experimental study." *European Journal of Anaesthesiology* 32 (10):735-741. doi: 10.1097/eja.000000000000296.
3. Abuja, G. A., J. M. Garcia-Lopez, G. Manso-Diaz, T. J. P. Spoormakers, and O. Taeymans. 2014. "The cranial nuchal bursa: Anatomy, ultrasonography, magnetic resonance imaging and endoscopic approach." *Equine Veterinary Journal* 46 (6):745-750. doi: 10.1111/evj.12226.
4. Acevedo, P., B. Romero, J. Vicente, S. Caracappa, P. Galluzzo, S. Marineo, D. Vicari, A. Torina, C. Casal, J. de la Fuente, and C. Gortazar. 2013. "Tuberculosis Epidemiology in Islands: Insularity, Hosts and Trade." *Plos One* 8 (7). doi: 10.1371/journal.pone.0071074.
5. Adedeji, A. O., B. Barr, E. Gomez-Lucia, and B. Murphy. 2013. "A Polytropic Caprine Arthritis Encephalitis Virus Promoter Isolated from Multiple Tissues from a Sheep with Multisystemic Lentivirus-Associated Inflammatory Disease." *Viruses-Basel* 5 (8):2005-2018. doi: 10.3390/v5082005.
6. Aguado, D., M. Abreu, J. Benito, J. Garcia-Fernandez, and I. A. G. de Segura. 2013. "Effects of Naloxone on Opioid-induced Hyperalgesia and Tolerance to Remifentanil under Sevoflurane Anesthesia in Rats." *Anesthesiology* 118 (5):1160-1169. doi: 10.1097/ALN.0b013e3182887526.
7. Aguado, D., M. Abreu, J. Benito, J. Garcia-Fernandez, and I. A. G. de Segura. 2015. "Amitriptyline, minocycline and maropitant reduce the sevoflurane minimum alveolar concentration and potentiate remifentanil but do not prevent acute opioid tolerance and hyperalgesia in the rat A randomised laboratory study." *European Journal of Anaesthesiology* 32 (4):248-254. doi: 10.1097/eja.000000000000098.
8. Aguado-Urda, M., A. Gibello, M. D. Blanco, J. F. Fernandez-Garayzabal, V. Lopez-Alonso, and G. H. Lopez-Campos. 2013. "Global Transcriptome Analysis of *Lactococcus garvieae* Strains in Response to Temperature." *Plos One* 8 (11):11. doi: 10.1371/journal.pone.0079692.
9. Aguado-Urda, M., A. Rodriguez-Bertos, A. I. de las Heras, M. M. Blanco, F. Acosta, R. Cid, J. F. Fernandez-Garayzabal, and A. Gibello. 2014. "Experimental *Lactococcus garvieae* infection in zebrafish and first evidence of its ability to invade non-phagocytic cells." *Veterinary Microbiology* 171 (1-2):248-254. doi: 10.1016/j.vetmic.2014.03.029.
10. Aguirre, J., M. R. Rodriguez, R. Gonzalez, and G. G. de Fernando. 2013. "E-beam irradiation affects the maximum specific growth rate of *Bacillus cereus*." *International Journal of Food Science and Technology* 48 (2):382-386. doi: 10.1111/j.1365-2621.2012.03199.x.
11. Aguirre, J. S., G. G. de Fernando, E. Hierro, X. F. Hospital, J. A. Ordonez, and M. Fernandez. 2015. "Estimation of the growth kinetic parameters of *Bacillus cereus* spores as affected by pulsed light treatment." *International Journal of Food Microbiology* 202:20-26. doi: 10.1016/j.ijfoodmicro.2015.02.020.
12. Aguirre, J. S., A. Gonzalez, N. Ozcelik, M. R. Rodriguez, and G. D. G. de Fernando. 2013. "Modeling the *Listeria innocua* micropopulation lag phase and its variability." *International Journal of Food Microbiology* 164 (1):60-69. doi: 10.1016/j.ijfoodmicro.2013.03.003.
13. Aguirre, J. S., E. Hierro, M. Fernandez, and G. D. G. de Fernando. 2014. "Modelling the effect of light penetration and matrix colour on the inactivation of *Listeria innocua* by pulsed light."

<i>Innovative Food Science & Emerging Technologies</i> 26:505-510. doi: 10.1016/j.ifset.2014.05.011.
14. Aguirre, J. S., A. Monis, and G. D. G. de Fernando. 2014. "Improvement in the lag phase estimation of individual cells that have survived mild heat treatment." <i>International Journal of Food Science and Technology</i> 49 (3):884-894.
15. Aldeguez, M., M. Lopez-Andreo, J. A. Gabaldon, and A. Puyet. 2014. "Detection of mandarin in orange juice by single-nucleotide polymorphism qPCR assay." <i>Food Chemistry</i> 145:1086-1091. doi: 10.1016/j.foodchem.2013.09.002.
16. Alia-Garcia, E., D. Parra-Pecharroman, A. Sanchez-Diaz, S. Mendez, A. Royuela, L. Gil-Alberdi, J. Lopez-Palafox, and R. del Campo. 2015. "Forensic identification in teeth with caries." <i>Forensic Science International</i> 257:236-241. doi: 10.1016/j.forsciint.2015.08.021.
17. Alvarez, J., J. Bezoz, M. L. de la Cruz, C. Casal, B. Romero, L. Dominguez, L. de Juan, and A. Perez. 2014. "Bovine tuberculosis: Within-herd transmission models to support and direct the decision-making process." <i>Research in Veterinary Science</i> 97:S61-S68. doi: 10.1016/j.rvsc.2014.04.009.
18. Alvarez, J., A. Perez, S. Marques, J. Bezoz, A. Grau, M. L. de la Cruz, B. Romero, J. L. Saez, M. D. Esquivel, M. D. Martinez, O. Minguez, L. de Juan, and L. Dominguez. 2014. "Risk factors associated with negative in-vivo diagnostic results in bovine tuberculosis-infected cattle in Spain." <i>Bmc Veterinary Research</i> 10:10. doi: 10.1186/1746-6148-10-14.
19. Alvarez-Garcia, G., A. Fernandez-Garcia, D. Gutierrez-Exposito, Jars Quiteria, A. Aguado-Martinez, and L. M. Ortega-Mora. 2014. "Seroprevalence of Besnoitia besnoiti infection and associated risk factors in cattle from an endemic region in Europe." <i>Veterinary Journal</i> 200 (2):328-331. doi: 10.1016/j.tvjl.2014.02.013.
20. Alvarez-Garcia, G., C. F. Frey, L. M. O. Mora, and G. Schares. 2013. "A century of bovine besnoitiosis: an unknown disease re-emerging in Europe." <i>Trends in Parasitology</i> 29 (8):407-415. doi: 10.1016/j.pt.2013.06.002.
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Other relevant documents

Annex 1.1.2.

Strategic Plan, FVM, UCM



Strategic Plan (2017-2020)

Faculty of Veterinary (FVM)
Complutense University of Madrid
(UCM)



The FVM of the UCM has been developing a process of internal reflection for more than a decade in order to consolidate the different improvements it has undergone since the beginning of the European, National and Regional accreditations, and the implementation of Quality Assurance Systems for Teaching. This process allows presenting this document called Plan of Strategic Actions of the Faculty of Veterinary 2017-2020 (hereafter, Strategic Plan).

In this way, and in conjunction with the guidelines and objectives set by the UCM, a model of action based on strategic direction is addressed. In 2011, the current team of the FVM began to consider the need to undertake, from a lower level, an improvement strategy for our Faculty, based on the achievement of better quality standards in teaching, research and considering all the collectives that daily work in the FVM.

The document starts by explaining the Mission Statement, Vision and Values of the FVM, to continue with the SWOT analysis of the Establishment, carried out under the themes that we consider to be key elements and that must support the action plans, ending with the Strategic Formulation for the period 2017-2020.

We believe that this document and its development, along with other actions carried out at the institutional level, will also contribute to strengthening the quality culture in our Faculty, and will undoubtedly be an added value in the face of the European evaluation to which the Establishment will receive throughout the year 2017.

Madrid, December 2016

A handwritten signature in blue ink, appearing to read 'Pedro L. Lorenzo González'.

Pedro L. Lorenzo González

Dean

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BACKGROUND

The Strategic Plan is initially based on the program that the Dean of the current direction team of the FVM proposed to the Faculty Board in November 2011 (reviewed, updated and presented again at the Board in November 2015). This program contained a series of objectives and transversal lines of action, as well as specific lines for Students, Teaching and Research Staff and Administration and Services Personnel. Information can be consulted on the website: <http://veterinaria.ucm.es/plan-de-actuaciones-y-Strategys>

The reflections expressed in the above mentioned document have served as starting point to be profiled today in function of the new educational, economic and social environment in which we are and in which we hope to be in the near future, object of the current Plan.

SUMMARY of PREVIOUS PROGRAMS OF ACTIONS (*Faculty Board, November 2011, reviewed and updated in November 2015*)

Objectives

- *To consolidate the Degrees in Veterinary and in Food Science and Technology (CyTA)*
- *To improve the planning and academic organization of undergraduate and postgraduate studies*
- *To obtain the National accreditations of the Degrees (Veterinary and CyTA) and the EAEVE Accreditation*
- *To improve the development of activities at the singular structures of our Faculty: Veterinary Teaching Hospital (VTH), Teaching Farm and Food Pilot Unit (FPU)*
- *To collaborate with the VTH in order to improve the assistance, teaching and research activity*
- *To consolidate the representation of the FVM in professional and social institutions, and in academic forums*

Environmental Framework of Internal Institutional Relations

- *Our University*
- *The Departments*
- *The Faculty*

Environmental Framework of External Institutional Relations

- *The EAEVE*
- *The Spanish Conference of Veterinary Faculties*
- *The National institutions, administrations and professional associations*
- *The international relationships*

LINES OF ACTION FOR THE DIFFERENT COLLECTIVES OF THE FVM

Students

- *To Encourage the student's participation in the Establishment's management tasks*
- *To create and/or to promote different projects:*
 - *EstuVET Office*
 - *ErasmusVET Office*
 - *Mentoring Program (MENTOR-VET)*
 - *Tutoring Program (PAT-VET)*
 - *Teaching Monitoring System*
 - *Open House Day (FVM, VTH, VISAVET, Teaching Farm, etc.)*
- *To promote information policies for job search*
- *To provide logistical and economic support to the Students Associations of the FVM*
- *To improve the academic management attention*
- *To potentiate the national and international mobility*

Academic and Research Staff

- *To improve the teaching and research training*
- *To carry out a study on the actual situation of the staff needs*
- *To incorporate new teaching staff*
- *To strengthen the participation of the academic and research staff in the management and organization tasks*
- *To develop activities of continuing education*

Support staff

- *To enhance the singularity of the functions of the FVM*
- *To develop a list of specific jobs at the FVM*
- *To undertake actions aimed at continuing education and specialization*
- *To request the recognition of support staff who collaborate in teaching tasks*
- *To strengthen the participation of the support staff in the management and organization tasks*

CROSS LINES OF ACTION

Teaching

- *To strengthen the Quality Committees*
- *To establish the corresponding improvement plans for the Degrees*
- *To work in the coordination of theoretical and practical programs*
- *To implement the new PhD program*
- *To encourage and expand the offer of postgraduate and continuing training of the FVM*
- *To improve the use of Information Technology*
- *To strengthen agreements with institutions and companies*
- *To promote the participation in Educational Innovation Projects*
- *To adapt the processes of teacher evaluation (Docentia program)*
- *To advance in the FVM internationalization*

Research and Technology Transfer

- *To make known the research carried out in the FVM*

- *To promote the participation of students of Degree in scientific congresses*
- *To encourage the use of the Inves-VET research distribution list*
- *To implement the Science Days of the FVM*
- *To capture new sources of income*
- *To strengthen the Animal Ethics and Experimentation Committee of the FVM*
- *To develop the "Animal Facilities Project"*

Training and dissemination of information

- *To promote specific continuing education in the FVM*
- *To promote training and awareness of the Occupational Risk Plans*
- *To strengthen the training activities of the FVM Library*
- *To create community outreach spaces at the FVM*

Infrastructures, Security and Singular Facilities

- *To potentiate the Teaching Farm, the FPU and the relationships with the VTH*
- *To incorporate the culture of Protection and Security*
- *To strengthen the Veterinary Library and Museum*



MISSION STATEMENT, VISION AND VALUES

Mission Statement

Assuming the general objectives of the Complutense University of Madrid as their own, and having as priority lines the achievement of the standards set by the Quality Assurance System of the Faculty of Veterinary, our mission as a centre of Higher Education is:

To train professionals of quality and prestige, who seek to preserve the health of animals and the population, and the conservation of the environment.

Vision

Guide veterinary education to society demands, providing effective teaching, developing advanced research and quality community assistance.

Values

- Commitment with our students and the society in general.
- Ethical commitment with interest and respect for animal welfare and nature.
- Constant search for excellence and quality from the innovation and analysis of the needs and expectations of society.
- Teamwork, encouraging the participation of all parties to achieve common goals.
- Collaboration with our environment and with other centres and institutions at national and international level.
- Integrity, responsibility, ethics and transparency in the actions.
- Identification with the institutional values of the UCM, such as democratic participation, merit, equality and capacity.

SWOT ANALYSIS

STRENGTHS

- Long historical tradition.
- National and international reputation and prestige.
- Geographic location and transport infrastructure.
- High demand for their degrees compared to other universities.
- High degree of motivation and involvement of the teaching staff, support staff and students.
- Excellent teacher: student ratio.
- High level of synergy between students and staff that allows the integral development of students.
- High percentage of teachers with veterinary qualifications (82% of the total professors, 87% in full-time equivalents), qualified and experts in their fields of knowledge.
- High number of associate professors in practical teaching.
- Veterinary Teaching Hospital organised in services, and with European Diplomates.
- High quality intra-mural practices.
- High quality extra-mural practices related to large animal and food-animal clinics; highly valued by students.
- Well-equipped laboratories.
- Unique structures such as the Food Processing Unit, the Teaching Farm and the VISAVET Health Surveillance Centre.
- Library with an extensive bibliographical collection and specialized scientific information.
- High level of student engagement in extracurricular activities: student congress, associations, cultural activities, mentoring program.
- Excellent relationships with related institutions, administrations, livestock companies and professionals in all clinical and health areas.
- Active development of national and international exchange programs for students and teachers.
- A Quality Assurance System implemented and optimally developed.
- Use of information technologies in the training of students, academic staff and support staff.
- High number of research groups of excellence and national and international reference.
- Leadership in research resources.
- Proximity to advanced research centres and teams in all disciplines.
- Membership in the Agri-Food cluster of the Moncloa Campus of International Excellence (CEI-Moncloa).
- Participation in numerous events related to the profession.
- Social recognition at local, regional and national level.

WEAKNESSES

- Lack of autonomy in the full management of the centre.
- Financial situation of the UCM. Dependency on the endowment coming from the University, for very expensive studies.
- Insufficient budget to manage the unique infrastructures.
- Difficulty of expansion and improvement due to budget cutbacks.
- Scarce management capacity of the Faculty in University expansion projects or investments.
- Progressive increase in the average age of teachers (currently 53 years).
- Insufficient interaction between clinical and basic science Departments.
- Inadequacy and inefficiency of some infrastructures and difficulty of improvement.
- Insufficient space for the improvement of the Teaching Farm.
- Insufficient space allocated to the Food Processing Unit (FPU).
- Insufficient space for central service management areas.
- High teaching load in some areas of knowledge.
- Insufficient knowledge by the population about the work of the veterinarians.
- Deficit in internal and external communication.
- Difficulty in optimizing human resources and infrastructures for research.
- Absence of a support unit for the management of research and fundraising.



OPPORTUNITIES

- Leadership in veterinary education in Spain.
- Improvement of educational programs and their adaptation to European regulations.
- Promotion of the internationalization of the Degrees.
- Implementation of specialized clinical services.
- Increase of activity as a result of increasing numbers of pets.
- Attracting talent for teaching and research.
- Development of teacher training activities.
- Promotion of a new model of budget allocation to the Faculties in the University.
- Promotion of training for students of "cultural proximity": Latin America.
- Development of new fields of activity: aquaculture, apiculture, etc.
- Increase of the offer of permanent education in accordance with the demands of the profession and society in general.
- Promotion of the participation of the VTH, the FPU and the Teaching Farm in the improvement of the postgraduate and continuing education.
- Improvement of the connection among the Teaching Farm, the FPU and the Pathology Service of the VTH.
- Membership of the CEI-Moncloa and proximity to the Technology Park to promote collaborations with related institutions.
- Active participation in the plans of the agricultural industry (the first industrial sector of the Spanish economy)
- Improvement of the efficiency of support services.
- Enhancement of mobility actions for students and staff.
- Improvement of plans for the safety of facilities, staff and students.
- Improvement of the monitoring of the graduates employability.
- Organization of the alumni association as an instrument for managing and reinforcing the identity of the FVM.
- Increase of the offer of online and blended training.
- Improvement of the visibility of the FVM and, in general, of the veterinary profession.

THREATS

- Decrease in economic resources.
- Dependency on the distribution of funds from the University.
- Excessive centralization of decision-making in university services (teaching, research and management).
- Aging of both academic and support staff.
- Competition with other Veterinary Faculties (high number of Faculties).
- Increase in the cost of veterinary education.
- Building deterioration.
- Increase in the maintenance needs of the infrastructures: VTH, FPU, Teaching Farm, laboratories, etc.
- Reduction of the cattle inventory.
- Shortage of specialized support staff in teaching tasks.
- Situation of uncertainty with the proposal of new organization for Departments and Faculties in the UCM.



DEVELOPMENT OF THE STRATEGIC PLAN

Significant aspects to consider:

HOW IS OUR CURRENT ORGANIZATION?

- Analysis of the environment

WHERE DO WE WANT TO LEAD TO OUR FACULTY IN THE FUTURE?

- Definition of a strategic direction

STRATEGIC VISION

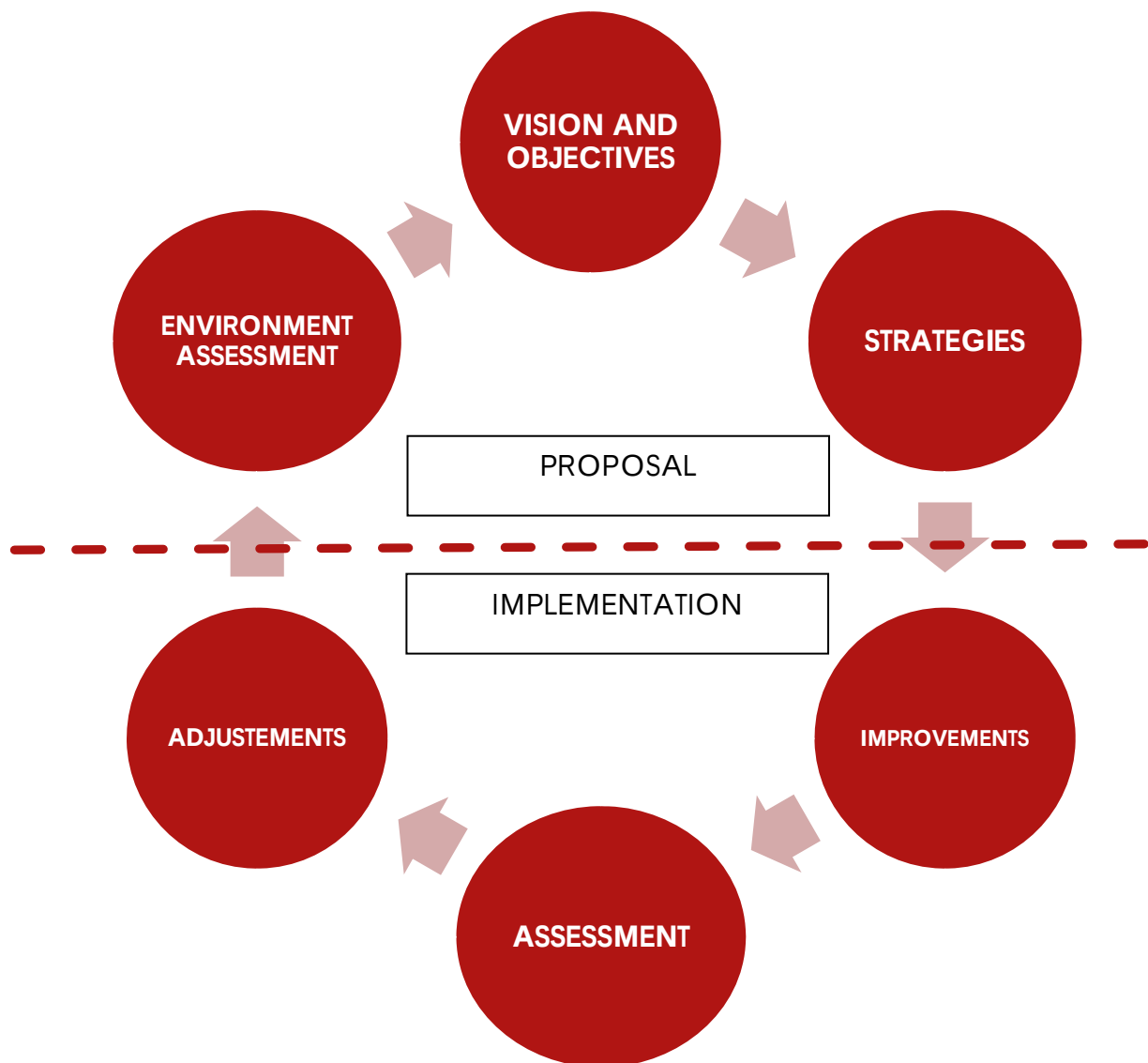
- Strategic implications
- Mission and vision
- Values and principles
- Objectives
- Collaboration between responsible commissions

HOW SHOULD WE CARRY OUT?

- Strategic training
- Tactics

HOW TO ASSESS? PLAN OF IMPLEMENTING, MONITORING AND COMMUNICATION

- Analysis plan
- Prioritization strategies
- Scheduled development of improvements
- Participation of improvement teams (Quality and Improvement Committees)
- Communication and participation of all levels of the Establishment in the improvement and redefinition of objectives



Development of the STRATEGIC PLAN

- EVALUATION AND IDENTIFICATION OF PRIORITY OBJECTIVES
- ASSIGNATION OF COMMITTEES TO ASSESS IMPROVEMENTS
 - IMPLEMENTATION OF STRATEGIC LINES
 - ASSESSMENT OF IMPROVEMENTS
- CONNECT WITH OTHER IMPROVEMENT PLANS (UNIVERSITY, COMMUNITY, STATE)
 - PLAN ADJUSTMENT: MONITORING PROGRESS
 - PLAN ADJUSTMENT: COMMUNICATION OF RESULTS
- PLAN ADJUSTMENT: REASSESSMENT AND REDEFINITION OF OBJECTIVES

STRATEGIC THEMES AND OBJECTIVES

TEACHING

- To review the learning programmes in the adaptation of the Degrees to the European Higher Education Area
- To educate leaders in the veterinary profession (public health, clinical practice, animal production, food safety, environment, administration)
- To improve human and material resources
- To prepare the FVM for national accreditations
- To prepare the FVM for the EAEVE accreditation

RESEARCH

- To increase research activities
- To improve research infrastructures
- To lead quality research

MANAGEMENT AND SUPPORT SERVICES

- To ensure improvements in the infrastructures and sufficient, sustainable and sustained funding in future
- To promote an integral improvement of the management and services of the FVM
- To promote the welfare of staff and students

SOCIAL IMPACT

- To advance in animal health and welfare, and public health, as well as the conservation of the environment
- To increase the awareness of the professional activities of the Veterinarian and the FVM
- To build solid partnerships in the field of veterinary education and agri-food with other faculties, and public and private institutions

Strategic Theme 1: Teaching

Objective 1.1. Review of the learning programmes in the adaptation of the Degrees to the European Higher Education Area

Strategy 1.1.1. Review of syllabus

Actions:	Responsible	Period
1.1.1.1. Reactivation of the Committees of Coordination of Degree studies	Faculty Council	2017-18
1.1.1.2. Guarantee of a wide participation of the academic staff, through procedures approved by the Faculty Council	Faculty Council	2017-18

Strategy 1.1.2. Promotion of the improvement of teaching-learning processes

Actions:	Responsible	Period
1.1.2.1. Preparation and development of a specific training plan for academic staff of the FVM	Vice Dean Academic Staff/Vice dean Quality/ Dean Office	2017-18

Strategy 1.1.3. Encouragement of horizontal and vertical coordination of subject contents

Actions:	Responsible	Period
1.1.3.1. Establishment of specific meetings to share the content of the subjects and promotion of coordination.	Vice dean Coordination	2017

Strategy 1.1.4. Development of practical training

Actions:	Responsible	Period
1.1.4.1. Redefinition of the size of practice group for each type of practice, according to objective criteria.	Vice dean Coordination/ Faculty Council	2017
1.1.4.1. Definition of size of groups and adequate development of training in the Rotations	Vice dean Coordination/ Faculty Council	2017
1.1.4.2. Review of the implementation of Diploma Thesis (TFG)	Faculty Council	2017-20

Strategy 1.1.5. Promotion of official postgraduate studies

Actions:	Responsible	Period
1.1.5.1. Promotion of Master and PhD studies of high quality in the different areas of Veterinary Sciences	Vice Dean Postgraduate/Faculty Council	2017

Strategy 1.1.6. Promotion of the internationalization of Degrees

Actions:	Responsible	Period
1.1.6.1. Promotion of mobility actions, communication in English, international visibility of study offer, and training for	Dean Office/Faculty Council	2017-20

academic and support staff for this purpose		

Objective 1.2. Education of leaders in the veterinary profession (public health, clinical practice, animal production, food safety, environment, administration)

Strategy 1.2.1. Approach of the professional reality to the FVM		
Actions:	Responsible	Period
1.2.1.1. Implementation of the External Consultative Council.	Dean Office	2017
Strategy 1.2.2. Promotion of the continuing education		
Actions:	Responsible	Period
1.2.2.1. Development of a continuing education program in collaboration with agencies and entities.	Vice Dean Postgraduate/Dean Office	2017-20

Objective 1.3. Improvement of human and material resources

Strategy 1.3.1. Improvement of human resources (academic staff)		
Actions:	Responsible	Period
1.3.1.1. Support to the requests of the Departments with imbalances of staff. Consolidation of temporary staff	Dean Office	2017-20
1.3.1.2. Increase of staff linked to practical and assistance training	Dean Office	2017-20
1.3.1.3. Recognition of teaching work in assistance tasks (VTH, Teaching Farm)	Dean Office	2017-20
Strategy 1.3.2. Improvement of human resources (support staff)		
Actions:	Responsible	Period
1.3.2.1. Preparation of a report of support staff needs adapted to the curriculum.	Faculty Council/ Management	2017-18
1.3.2.2. Consolidation of temporary staff	Faculty Council/Management	2017-20
1.3.2.3. Strengthening of support staff training	Faculty Council/ Management	2016-18
Strategy 1.3.3. Improvement of teaching facilities (including VTH, FUP and Teaching Farm)		
Actions:	Responsible	Period
1.3.3.1. Extension, adaptation and reorganization of teaching spaces.	Teaching Farm Committee / Faculty Council	2017-18
1.3.3.2. Improvement of the budget for teaching facilities	Faculty Council	2017-20

1.3.3.3. Removal of architectural barriers and improvement of the implementation of measures against risks	Dean Office/Management	2017
Objective 1.4. Preparation of the FVM for the National Accreditation		
Strategy 1.4.1. Preparation of the FVM for the National Accreditation		
Actions:	Responsible	Period
1.4.1.1. Preparation of Self-Evaluation Report	Committee for Quality Assessment and Improvement	2017
1.4.1.2 Approval of Self-evaluation Report	Faculty Council	2017
Objective 1.5. Preparation of the FVM for the EAEVE Accreditation		
Strategy 1.5.1. Preparation of the FVM Documentation for the EAEVE Accreditation		
Actions:	Responsible	Period
1.5.1.1 Preparation of Self-Evaluation Report	Committee EAEVE	2017
1.5.1.2 Approval of Self-evaluation Report and remission to the Visitation Team	Faculty Council	2017
1.5.1.3 Approval of a common presentation template for the different units	Faculty Council	2017
Strategy 1.5.2. Institutional support for the visits		
Actions:	Responsible	Period
1.5.2.1 Implication of the Rector's Office in the processes of evaluation	Dean Office	2017

Strategic Theme 2: Research

Objective 2.1. Increase of the research activities

Strategy 2.1.1. Increased internal knowledge of the FVM research activities in order to promote the collaboration among different research groups

Actions:	Responsible	Period
2.1.1.1. Preparation and publication of documents that include the main lines of research of the FVM and Research Groups	Vice Dean Research	2017
2.1.1.2. Promotion of activities to disseminate the research activity	Vice Dean Research/ Departments	2017
2.1.1.3. Involvement of students in cross-cutting collaborative research activities	Vice Dean Research/ Departments	2017

Objective 2.2. Improvement of research infrastructures

Strategy 2.2.1. Creation and development of infrastructures for research

Actions:	Responsible	Period
2.2.1.1. Development of a list of infrastructures and enhancement for common use	Dean Office/ Management	2017
2.2.1.2. Development of electronic tools to improve the application and management of projects	Vice Dean Research	2017-18
2.2.1.3. Support for research carried out in the singular structures of the FVM	Vice Dean Research/ Faculty Council	2017

Objective 2.3. Leadership for a quality research

Strategy 2.3.1. Fundraising

Actions:	Responsible	Period
2.3.1.1 Promotion of participation of research groups in calls for funding and talent	Vice Dean Research/ Departments	2017-20
2.3.1.2 Promotion of participation in programs of infrastructure acquisition	Vice Dean Research/ Departments	2017-20
2.3.1.3. Development of protocols to improve collaboration with external agencies	Vice Dean Research/ Departments	2017-20

2.3.1.4. Development of strategies to promote the transfer of results to society	Vice Dean Research/ Departments	2017-20

Strategic Theme 3: Management and Support Services

Objective 3.1. Guarantee of improvements in the infrastructures and sufficient, sustainable and sustained funding in future

Strategy 3.1.1. Increased and sustained budget revenue

Actions:	Responsible	Period
3.1.1.1. Request to the academic authorities more funding due to the peculiarities of the studies in Veterinary Sciences	Dean Office	2017
3.1.1.2. Encouragement of the revision of the system of economic division between Faculties	Dean Office	2017
3.1.1.3. Development of sustainable financing systems for the VTH, Teaching Farm and FPU	VTH/ Dean Office	2017-20

Strategy 3.1.2. Improvement of marketing and public relation skills

Actions:	Responsible	Period
3.1.2.1. Improvement of internal communication, transparency and collaboration between administrative structures	Dean Office/ Management	2017
3.1.2.2. Improvement and standardization of logos and corporate images of the FVM	Dean Office/ Management	2017
3.1.2.3. Promotion of the public recognition of the VTH, Teaching Farm and FPU	Dean Office/ Management	2017-20
3.1.2.4. Participation of experts in communication and social networks to improve the visualization of activities	Dean Office/ Management	2017

Strategy 3.1.3. Optimization of organizational structures

Actions:	Responsible	Period
3.1.3.1. Request of optimization and rationalization of organizational structures	Dean Office/ Management	2017

Objective 3.2. Promotion of an integral improvement of the FVM management and services

Strategy 3.2.1. Increase of quality commitment

Actions:	Responsible	Period

3.2.1.1. Reinforcement of the Internal System of Quality Assessment	Vice dean Quality	2017-20
3.2.1.2. Preparation of service satisfaction surveys	Committee for Quality Assessment and Improvement	2017-20
3.2.1.3. Promotion of participation in Docentia-program (Assessment of teaching quality program)	Committee for Quality Assessment and Improvement /Vice dean Quality	2017-20
Objective 3.3. Promotion of welfare of staff and students		
Strategy 3.3.1. Establishment of programs to improve the welfare of staff and students		
Actions:	Responsible	Period
3.3.1.1. Training of students in risk protection and biosafety	Dean Office/Management	2017-20
3.3.1.2. Training of staff in risk protection and biosafety	Dean Office/Management	2017-20

Strategic Theme 4: Social impact

Objective 4.1. Advance in animal health and welfare, and public health, as well as the conservation of the environment

Strategy 4.1.1. Dissemination of the role of veterinarians in animal health and welfare, and public health, as well as the conservation of the environment

Actions:	Responsible	Period
4.1.1.1. Training of students in animal welfare	Dean Office	2017-20
4.1.1.2. Organization of congresses and seminars on contents of importance (public health, food safety)	Dean Office/ Management/ Departments	2017-20

Objective 4.2. Increased awareness of the professional activities of the Veterinarian and the FVM

Strategy 4.2.1. Promotion of joint actions with the Official College of Veterinarians and Professional Associations

Actions:	Responsible	Period
4.2.1.1 Promotion of joint actions with the Official College of Veterinarians and Professional Associations	Dean Office	2017-20

Strategy 4.2.2. Promotion of activities organised at the FVM

Actions:	Responsible	Period
4.2.2.1. Promotion of the activities in the media.	Dean Office/ Departments	2017-20
4.2.2.2 Increased presence in the Social Communication Networks	Dean Office/ Management	2017-20
4.2.2.3. Development of sports activities, photography contests, short stories competitions, open days, etc.	Vice Dean Students	2017-20
4.2.2.4. Presence of the FVM in events, student congresses, etc. Website Improvement	Dean Office	2017-20

Objective 4.3. Creation of solid partnerships in the field of veterinary education and agri-food with other faculties, and public and private institutions

Strategy 4.3.1. Collaboration in veterinary actions

Actions:	Responsible	Period
4.3.1.1. Active participation in all decisions concerning the health and animal welfare of the UCM and environment,	VTH/ Dean Office	2017-20

being the only Faculty of Veterinary		
4.3.1.2.Participation in decisions about number of students admitted	Dean Office	2017-20
4.3.1.3. Participation in global initiatives on "One Health Initiative," "Farm-to-Table" and "Antimicrobial Resistance"	Dean Office	2017-20
Strategy 4.3.2. Collaborations with livestock and agriculture institutions and industry		
Actions:	Responsible	Period
4.3.2.1.Enhancement of activities of the Spanish Conference of Veterinary Faculties	Dean Office	2017-20
4.3.2.2 Participation in Scientific Societies and Institutions Committees	Dean Office	20117-20
4.3.2.2 Monitoring of the graduates employability	Dean Office	2017-20

PRIORITIZATION OF STRATEGIES FOR IMPLEMENTATION

STRATEGY	Implementation
1.1.1. Review of syllabus	Immediate
1.1.2. Promotion of the improvement of teaching-learning processes	Mid-Term
1.1.3. Encouragement of horizontal and vertical coordination of subject contents	Immediate
1.1.4. Development of practical training	Mid-Term
1.1.5. Promotion of official postgraduate studies	Immediate
1.2.1. Approach of the FVM to the professional reality	Mid-Term
1.2.2. Promotion of the continuing education	Mid-Term
1.3.1. Increase of human resources (academic staff)	Mid-Term
1.3.2. Increase of human resources (support staff)	Mid-Term
1.3.3. Improvement of teaching facilities (including VTH, FUP and Teaching Farm)	Immediate
1.4.1. Preparation of the FVM for the National Accreditations	Immediate
1.5.1. Preparation of the FVM Documentation for the EAEVE Accreditation	Immediate
1.5.2. Institutional support for the visits	Immediate
2.1.1. Increased internal knowledge of the FVM research activities in order to promote the collaboration among different research groups	Mid-Term
2.2.1. Creation and development of infrastructures for research	Long-Term
2.3.1. Fundraising	Long-Term
3.1.1. Increased and sustained budget revenue	Mid-Term
3.1.2. Improvement of marketing and public relations skills	Mid-Term
3.1.3. Optimization of organizational structures	Long-Term
3.2.1. Increase of compromise with quality	Mid-Term
3.3.1. Establishment of programs to improve the welfare of staff and students	Immediate
4.1.1. Dissemination of the role of veterinarians in animal health and welfare, and public health, as well as the conservation of the environment	Long-Term
4.2.1. Promotion of joint actions with the Official College of Veterinarians and Professional Associations	Long-Term
4.2.2. Promotion of activities organized in the FVM	Immediate
4.3.1. Collaboration in veterinary actions	Mid-Term
4.3.2. Collaborations with livestock and agriculture institutions and industry	Long-Term

Immediate: implementing or starting in a period lower than 6 months

Mid-Term: between 6 and 12 months

Long-Term: over one year

MEASURABLE EXAMPLES

OBJECTIVE	MEASURABLE Examples
Education of leaders in the veterinary profession (public health, clinical practice, animal production, food safety, environment, administration)	Student Satisfaction Surveys Contracts and employability
Improvement of human resources	Staff Satisfaction Surveys Number of candidates for teaching and research positions
Preparation of the FVM for the National Accreditation	Achievement of evaluation objectives
Preparation of the FVM for the EAEVE Accreditation	Achievement of evaluation objectives
Leadership for a quality research	Number of research projects Number of scientific publications (Q1) Patents, research contracts
Guarantee of improvements in the infrastructures and sufficient, sustainable and sustained funding in future	Increase in funding Sustainable infrastructure improvement plans
Promotion of an integral improvement of the FVM management and services	Achievement of objectives
Increased awareness of the professional activities of the Veterinarian and the FVM	Mentions in the media Number of invitations to presentations External improvement programs
Creation of solid partnerships in the field of veterinary education and agri-food with other faculties, and public and private institutions	Number of agreements Number of event invitations

Annex 1.1.5.

Composition of Delegated Committees associated with the Faculty Council

Composition of Delegated Committees associated with the Faculty Council

- Permanent Committee: the Dean, the Faculty Manager, the Faculty Secretary, a Head of the Department's representative, a permanent academic staff representative, a temporary academic staff representative, a support staff representative and a student representative.
- Research Committee: the Vice Dean for Research, a representative of each Department, the Manager, a support staff representative and a student representative.
- Mobility Committee: the Vice-Dean for International Relations, the Dean Delegate for Mobility, 4 staff representatives and a student representative.
- Committee for Transfer and Credit Recognition: the Dean or a delegate, the Vice Dean for Students, the Head of Student Secretary Office, 5 permanent teachers designated by the Faculty Council among those involved in the teaching of core subjects in the second cycle and a student representative.
- Biosecurity Committee: the Dean, the Vice-Dean for Research, the VTH Director, the Teaching Farm Director, the FPU Director, the Manager, one Head of Department representative, an academic staff representative (expert in biosecurity), a support staff' representative and a student representative.
- Postgraduate Committee: the Vice-Dean for Postgraduate Studies, a representative of each Department, a postgraduate student representative and a support staff representative.
- Financial Committee: the Dean, the Manager, the Heads of all the Departments and a student representative.
- Library Committee: the Vice-Dean for Research, the Manager, the Director and Sub-director of the Library, a representative of each of the Departments and a student representative.
- Veterinary Museum Committee: the Dean, the Veterinary Museum Director, a representative of each Department, a support staff representative and a student representative.
- Teaching Farm Committee: the Dean, the Vice-Deans for Research and Coordination, the Teaching Farm Director, the Manager, and the coordinators of the different Production Units of the Teaching Farm, and the Heads of Animal Medicine and Surgery Department, Animal Production Department and Animal Health Department.

Composition of the Quality Commission of the FVM and the Committee for Assessment and Improvement of the Veterinary Degree Curriculum is fully detailed in Chapter 11 and in Appendix 4.

Annex 3.1.5.

Example of activity distribution for a student during the Rotations

	Monday	Tuesday	Wednesday	Thursday	Friday
Month 1	15	16	17	18	19
	Rotation in Food Science and Technology				
	22	23	24	25	26
	Rotation in Food Science and Technology				
	29	1	2	3	4
	Rotation in Animal Production				
Month 2	7	8	9	10	11
	Rotation in Animal Production				
	14	15	16	17	18
	Small Animal First Opinion	Small Animal Cardiology	Small Animal Endoscopy	Small Animal Endocrinology	Small Animal Dermatology
	28	29	30	31	1 abril
	Small Animal Hospitalization and Emergencies	Small Animal Oncology	Small Animal Neurology	Small Animal Gastroenterology	Small Animal Ophtalmology
Month 3	4	5	6	7	8
	Small Animal Surgery and Rehabilitation	Small Animal Orthopedics	Small Animal Reproduction	Small Animal Odontology	Small Animal Neurosurgery
	11	12	13	14	15
	Small Animal Surgery	Small Animal Surgery	Small Animal Surgery	Small Animal Surgery	Small Animal Surgery
	18	19	20	21	22
	Imaging Diagnostics	Imaging Diagnostics	Imaging Diagnostics	Imaging Diagnostics	Imaging Diagnostics
	25	26	27	28	29
	Anesthesia	Anesthesia	Anesthesia	Anesthesia	Population Medicine. Beef cattle extensive farming
Month 4	2	3	4	5	6
	Infectious and Parasitic Diseases	Infectious and Parasitic Diseases	Infectious and Parasitic Diseases	Infectious and Parasitic Diseases	Microbiology and Parasitology Diagnostic Lab
	9	10	11	12	13
	Population Medicine. Small ruminant farming	Pathology (necropsies)	Pathology (necropsies)	Pathology (necropsies)	Pathology (necropsies)
	16	17	18	19	20
	Equine Reproduction/ Equine Physiotherapy	Equine and Ruminant Medicine	Equine Surgery	Equine and Ruminant Medicine/ Ruminant Reproduction	Ruminant Reproduction
	23	24	25	26	27
	Population Medicine. Poultry Farming	Population Medicine. Layer Hens	Population Medicine. Dairy cattle farming	Population Medicine. Swine farming	Population Medicine. Swine farming
Month 5	30	31	1	2	3
	Extramural Ruminant Mobile Clinic	Extramural Large Animal Reproduction Clinic	Extramural Equine Mobile Clinic	Extramural Equine Mobile Clinic	Extramural Ruminant Mobile Clinic
	6	7	8	9	10
	Equine Surgery	Equine and Ruminant Medicine	Equine Reproduction	Equine and Ruminant Medicine/ Ruminant Reproduction	Equine Reproduction

Annex 3.1.8.

List of external entities with active agreement for External Practical Training

External entities with active agreement for External Practical Training (EPT)	Area of interest
Abingdon and Grove Park Veterinary Clinics Ltd. (London, England)	Small Animals
Adela Puente Alonso (Clínica Veterinaria San Ignacio, Valladolid)	Small Animals
AEMPM (Asociación de Empresarios Mayoristas de Pescado de Madrid)	Food Safety/Public Health
Agropecuaria del Centro AGROCESA S.A.U. (Aldeamayor de San Martín, Valladolid)	Animal Production (swine)
Albeitarex-2011 S.L. (Don Benito, Badajoz)	Small and Large Animals
Alkemi, S.A. (Coslada, Madrid)	Food Safety/Public Health
Almirall SA (Barcelona)	Pharmaceutical company
AMUS (Villafranca de los Barros, Badajoz)	Animal Welfare and Wildlife Conservation
Asociación Rivanimal (Rivas Vaciamadrid, Madrid)	Animal Welfare
Atlántico Centro Veterinario (Conil de la Frontera, Cádiz)	Small Animals
Avanqua Oceanográfico-Ágora S.A. (Oceanográfico de Valencia)	Aquarium
Ayuntamiento de Córdoba (Zoo de Córdoba)	Zoological park
Ayuntamiento de Guadalajara (Zoo de Guadalajara)	Zoological park
Bioparc (Valencia)	Nature park
Biosistemas Integrales (Faunia)	Nature park
BRINZAL (Madrid)	Animal Welfare and Wildlife Conservation
CANTUR (Parque de la Naturaleza de Cabárceno)	Nature Park
Cedevet Veterinaria, S.L.L. Aznalcóllar Hospital Equino (Aznalcóllar, Sevilla)	Equines
CENTRE HOSPITALIER VETERINAIRE ATLANTIA (Nantes, France)	Small Animals
CENTRE HOSPITALIER VETERINAIRE FRÉGIS (Arcueil, France)	Small Animals
Centro de Investigación Apícola y Agroambiental – CIAPA (Marchamalo, Guadalajara)	Apiculture
Centro de Protección Animal Mancomunidad Henares-Jarama (Madrid)	Animal Welfare
Centro de Urgencias Veterinarias de Vigo (Pontevedra)	Small Animals
Centro Militar de Veterinaria (Madrid)	State Veterinary Services
Centro Veterinario A cuatro patas S.L. (Segovia)	Small Animals
Centro Veterinario Corrales (Corrales, Huelva)	Small Animals
Centro Veterinario Henares (Azuqueca de Henares, Guadalajara)	Small Animals
Centro Veterinario JOLUGA (Aranda de Duero)	Small Animals
Centro Veterinario Seseña (Seseña, Toledo)	Small Animals

External entities with active agreement for External Practical Training (EPT) (cont.)	Area of interest
CENTRO VETERINARIO SOTIVET, S.L., Sotillo de la Adrada (Ávila)	Small Animals
Citopath S.L. (Madrid)	Diagnostic Laboratory
Clínica Equina Francisco de Asís (Valladolid)	Equines
Clínica Exotics SLP (Barcelona)	Exotic pets
Clínica Veterinaria Agrizoo Cuenca (Cuenca)	Small Animals
Clínica Veterinaria Animalia (Gandía)	Small Animals
Clínica Veterinaria Animalia (Juan Manuel Sonlleve, Puertollano, Ciudad Real)	Small Animals
Clínica Veterinaria Blasco Ibáñez, 119 (Valencia)	Small Animals
Clínica Veterinaria Campello (Alicante)	Small Animals
Clínica Veterinaria Díaz de la Cebosa (Guadalajara)	Small Animals
Clínica Veterinaria Dr Gerardo Ibáñez Sánchez (Albacete)	Small Animals
Clínica Veterinaria Huellas (Águilas, Murcia)	Small Animals
Clínica Veterinaria La Campiña (Cabanillas del Campo, Guadalajara)	Small Animals
Clínica Veterinaria Jayda (Tomelloso, Ciudad Real)	Small Animals
Clínica Veterinaria Las Nieves (Santa Marta de Tormes, Salamanca)	Small Animals
Clínica Veterinaria LC (Guadalajara)	Small Animals
Clínica Veterinaria María Jiménez (Tenerife)	Small Animals
Clínica Veterinaria San Antón (Guardamar del Segura, Alicante)	Small Animals
Clínica Veterinaria San Antonio SLP (Ávila)	Small Animals
Clínica Veterinaria Zarpa (Cuenca)	Small Animals
Clockhouse Veterinary Group (Gloucestershire, England)	Small Animals
CNB (Centro Nacional de Biotecnología, CSIC)	Research Institute
CNIO (Centro Nacional de Investigaciones Oncológicas)	Research Institute
Colegio Oficial de Veterinarios de Madrid	Official Professional College
Consejería de Medio Ambiente. Comunidad de Madrid	State Veterinary Services
Conservas El Cidacos (La Puebla de Montalbán, Toledo)	Food safety/Public Health
Consorti Veterinari S.L. (Hospital Veterinari Molins, St Vicenç dels Horts, Barcelona)	Small Animals

External entities with active agreement for External Practical Training (EPT) (cont.)	Area of interest
CRESA (Fundació Centre de Recerca en Sanitat Animal, Barcelona)	Research Institute
CSIC (Centro Superior de Investigaciones Científicas)	Research Institute
Cuerpo Nacional de Policía	State Veterinary Services
CV Menescal (Novelda)	Small Animals
Dirección General de la Guardia Civil (Servicio Cinológico y de Remonta)	State Veterinary Services
Distrito de Salud Pública de Tarancón (Cuenca)	State Veterinary Services
Don Can C.B. (Palencia)	Small Animals
Esther Rodríguez Mínguez. Clínica Veterinaria San Blas (Alicante)	Small Animals
Explotaciones Avícolas José Luis Redondo (Leganés, Madrid)	Poultry
FISABIO (Valencia)	Research Institute
Fundación Neotrópico (Santa Cruz de Tenerife)	Research Institute
Fundación para la Investigación en Etología y Biodiversidad (Casarrubios del Monte, Toledo)	Research Institute
Garese (Ganaderos Reunidos Segovianos, Soc. Coop., Pinillo de Polendos, Segovia)	Animal Nutrition
GREFA (Madrid)	Animal Welfare and Wildlife Conservation
Guadamar Servicios Veterinarios de Referencia S.L.	Small Animals
Hacienda El Piul SL (Rivas Vaciamadrid, Madrid)	Food Animals (ruminants)
Hendrix Genetics, S.A.U. (Coruña)	Food Animals (swine)
Hosclivet SL (Hospital Clínico Veterinario de Talavera, Toledo)	Small Animals and Large Animals
Hospital de Día Vetersalud Segovia (Segovia)	Small Animals
Hospital de Referencia la Equina (Manilva, Málaga)	Equines
Hospital Veterinario Abros (Ourense)	Small Animals
Hospital Veterinario Althaía (Altea, Alicante)	Small Animals
Hospital Veterinario Canis (Mallorca)	Small Animals
Hospital Veterinario La Salle (Sevilla)	Small Animals
Hospital Veterinario San Vicente (San Vicente del Raspeig, Alicante)	Small Animals and Equines
Hospital Veterinario SOS Animal Catycan (Málaga)	Small Animals
Ichangu Street Dogs VZW (Nepal)	Animal Welfare/Public Health

External entities with active agreement for External Practical Training (EPT) (cont.)	Area of interest
Incarlopsa (Tarancón, Cuenca)	Food Safety/Public Health
Infantes Veterinarios CB (Villanueva de los Infantes, Ciudad Real)	Small Animals and Large Animals
Inga Food, S.A. (Tres Cantos, Madrid)	Food animals (swine)
INIA	Research Institute
Instituto de Investigación Sanitaria Hospital Gregorio Marañón (Madrid)	Research Institute
Instituto de Salud Carlos III	Research Institute
JUNTA DE CASTILLA Y LEÓN. SERVICIO TERRITORIAL DE SANIDAD Y BIENESTAR SOCIAL. BURGOS	State Veterinary Services
Juan Pablo Teidons (Madrid)	Ruminants
Laboratorios SYVA S.A. (León)	Pharmaceutical Company
LNPLR Guadalajara S.L. (Guadalajara)	Food Safety/Public Health
Loro Parque Fundación (Santa Cruz de Tenerife)	Zoological Park
Madrid Salud. Ayuntamiento de Madrid	State Veterinary Services
Marcelino Valle Fonck (Siero, Asturias)	Equines
Marina Baixa (Alfaz del Pi, Alicante)	Small Animals
MecoVet S.L. (Yuncos, Toledo)	Small Animals
Metaron Benelux (Bruxelles, Belgium)	Food Safety/Public Health
Morvet SCP (Clínica Vet. Zorrilla, Valladolid)	Small Animals
Museo del Campo Majorero S.L. (Pájara, Las Palmas)	Zoological Park
Neiker (Instituto Vasco de Investigación y Desarrollo Agrario, Derio, Vizcaya)	State Veterinary Services
Nutrimentos S.A. (Toledo)	Small Animals and Food Animals
OAM Parque das Ciencias Vigozoo (Zoo de Vigo, Pontevedra)	Zoological Park
Paraje de Albéitaras, S.L.L. (Alcázar de San Juan, Ciudad Real)	Small Animals
Parques Reunidos (Zoos Ibéricos, S.A., Gestión Parque De Animales Madrid, S.L., Parques De La Naturaleza Selwo, S.L., Parques Del Mediterráneo, S.A., Leisure Park, S.A.)	Zoological Park
Pascual (Calidad Pascual SAU, Fundación Tomás Pascual, Aranda de Duero, Burgos)	Food Safety/Public Health
Probisearch (Madrid)	Diagnostic Laboratory
Rainforest S.L. (Bioparc Fuengirola, Málaga)	Nature Park

External entities with active agreement for External Practical Training (EPT) (cont.)	Area of interest
Raúl Botella (Orihuela, Alicante)	Equines
Reinoldsborg Animal Hospital LLC (Ohio, United States of America)	Small Animals
Reserva Natural Castillo de las Guardas SLU (Castillo de las Guardas, Sevilla)	Nature Park
Rodrigo García Suardíaz (Trescasas, Segovia)	Equines
Rogocán SL (Toledo)	Small Animals
Royal Canin Ibérica	Animal Nutrition
Seal Rehabilitation and Research Centre (Pieterburen, Holland)	Animal Welfare and Wildlife Conservation
SCP DES DOCTEURS VETERINAIRES LOUGE ET BOUHELIER-LOUGE (Clinique Vétérinaire La Croix des Pyrénées, Ibos-Tarbes, France)	Small Animals
SERTEVE S.L. (Tineo, Asturias)	Food Animals
Servicios Veterinarios del Saja (Cigüenza, Cantabria)	Food Animals
Solipei (Hospital Vetersalud La Creu, Alfaz del Pi, Alicante)	Small Animals
Talavera Veterinaria El Parque S.L. (Talavera, Toledo)	Small Animals
Topigs Ibérica S.L.U. (Las Rozas, Madrid)	Food animals (swine)
TRACANI S.A. (Madrid)	Animal Welfare and Wildlife Conservation
Tragsatec (Madrid)	State Veterinary Services
Trialvet (Madrid)	Food Animals (ruminants)
Unidad Canina de Rescate de España (Madrid)	Small Animals
Valenciana de Acuicultura, S.A. (Pucol, Valencia)	Aquaculture
Veterfuensa Clínica Veterinaria (Fuensalida, Toledo)	Small Animals
Veterinario Valladolid S.L. (Valladolid)	Small Animals
Vet & Vet SP (Cuenca)	Small Animals
Villamagna S.A. (Madrid)	Wildlife Conservation
Yeguada Centurión S.L. (Lastras del Pozo, Segovia)	Equines
Zoomarine Italia SpA (Torvaianica – Pomezia, Italy)	Aquarium

External Entities Associated to the COLVEMA (Official College of Veterinary Surgeons of Madrid), with Active Agreement for EPT	Area Of Interest
2000 C.V.	Small Animals
Alcalá C.V.	Small Animals
Alcarria C.V.	Small Animals
Alcora C.V.	Small Animals
Alcorisa C.V.	Small Animals
Aldavet Servicios Veterinarios Slp	Small Animals
Alemana C.V.	Small Animals
Algete Centro Veterinario	Small Animals
Algodón Centro Veterinario	Small Animals
Alonso Cano C.V.	Small Animals
Altamira C.V.	Small Animals
Aluche Águilas C.V.	Small Animals
Alvaro Arévalo Utrero	Ethology
Amara Meilán Salazar	Equines
Ánade Centro Medico Veterinario	Small Animals
Anaga Centro Veterinario	Small Animals
Anubis C.V.	Small Animals
Arroyo Del Fresno C.V.	Small Animals
Asc Centro Quirúrgico Veterinario	Small Animals
Avenida De Europa Centro Veterinario (Edmovet)	Small Animals
Ayavet C.V.	Small Animals
Becerril C.V.	Small Animals
Blanco Centro Veterinario	Small Animals
Bulevar C.V.	Small Animals
Camaleo C.V.	Exotic pets
Canillas C.V.	Small Animals
Caramuel C.V.	Small Animals
Cardona Centro Veterinario	Small Animals

External Entities Associated to the COLVEMA (Official College of Veterinary Surgeons of Madrid), with Active Agreement for EPT (cont.)	Area Of Interest
Carlanca C.V.	Small Animals
Centauro Veterinarios	Small Animals
Centro De Protección Animal Ayto De Madrid	Animal Welfare
Ciudad De Los Periodistas C.V.	Small Animals
Clinica De Comportamiento Animal	Ethology
Colmenar C.V.	Small Animals
Colon Centro Veterinario	Small Animals
Conde Duque C.V.	Small Animals
Cov Centro Veterinario	Small Animals
Dcontreras C.V.	Small Animals
Del Val C.V.	Small Animals
Delicias Centro Medico Veterinario	Small Animals
Diego De Leon Centro Veterinario	Small Animals
Dirección General Policía	State Veterinary Services
Draco C.V.	Small Animals
El Álamo C.V	Small Animals
El Bosque Hospital Veterinario	Small Animals
El Capricho C.V.	Small Animals
El Casar	Small Animals
El Espinar C.V.	Small Animals
El Naranjo C.V.	Small Animals
El Olfato C.V	Small Animals
Emvet C.V.	Small Animals
Endovet S.L.	Small Animals
Equisán	Equines
Eraso C.V.	Small Animals

External Entities Associated to the COLVEMA (Official College of Veterinary Surgeons of Madrid), with Active Agreement for EPT (cont.)	Area Of Interest
Ervet Urgencias Veterinarias	Small Animals
Escultores C.V.	Small Animals
Espartales C.V.	Small Animals
Estoril C.V.	Small Animals
Exóticos C.V.	Exotic Pets
Exovet C.V.	Exotic Pets
Fapam Centro Acogida De Animales	Animal Welfare
Fauna C.V.	Small Animals
Fauna Y Acción	Wildlife
Ferraz C.V.	Small Animals
Finat C.V.	Small Animals
Fuencarral Centro Veterinario	Small Animals
Fuente Del Moral C.V.	Small Animals
Fuentelarreina C.V.	Small Animals
Fundación El Arca De Noé	Animal Welfare
Gattos Centro Veterinario SLP	Cats
Ginefiv (Reprod. Asistida Humana)	Reproduction
Green Can SLP	Small Animals
Horsepital S.L.	Equines
Hospital 24 Horas Vetersalud Indra	Small Animals
Hospital Felino Ventas	Cats
Hospital Veterinario Madrid Sur	Small Animals
If Centro Veterinario	Small Animals
Instinto Animal C.V.	Small Animals
Instituto Español De Genética Y Reproducción Animal	Reproduction
Insucavet S.L.P.	Equines

External Entities Associated to the COLVEMA (Official College of Veterinary Surgeons of Madrid), with Active Agreement for EPT (cont.)	Area Of Interest
Javervet S.L.C.V.	Small Animals
Jose Ignacio Vargas Herrero	Small Animals
Jose Ramon Martin Santiago	Equines
Kennel C.V.	Small Animals
Kliper C.V.	Small Animals
La Cañada C.V.	Small Animals
La Clínica Veterinaria	Small Animals
La Estrella Clinica Veterinaria	Small Animals
La Fortuna Centro Veterinario	Small Animals
La Latina C.V.	Small Animals
La Serna C.V.	Small Animals
Labrador C.V.	Small Animals
Las Nieves C.V.	Small Animals
Las Rozas C.V.	Small Animals
Leganés Norte C.V.	Small Animals
Lisboa Centro Veterinario	Small Animals
Loranca C.V.	Small Animals
Los Álamos Centro Medico Veterinario	Small Animals
Los Callejones Del Duende S.L.	Equines
Los Madrazo Hospital	Small Animals
Los Madroños Centro Veterinario	Small Animals
Los Molinos Clinica Grandes Animales	Food Animals
Lucero C.V.	Small Animals
Madagascar C.V.	Small Animals
Madrid Exóticos Centro Veterinario	Exotic pets
Madridrío C.V.	Small Animals

External Entities Associated to the COLVEMA (Official College of Veterinary Surgeons of Madrid), with Active Agreement for EPT (cont.)	Area Of Interest
Majadahonda Hospital Veterinario	Small Animals
Malasaña C.V.	Small Animals
Manuel Parache Clinica Veterinaria	Equines
Marañón C.V.	Small Animals
Marta Varela Del Arco	Equines
Mascompany Gesvet SLU	Small Animals
Masvet Centro Veterinario	Small Animals
Mejorada Centro Veterinario	Small Animals
Mimos C.V.	Small Animals
Momo Centro Veterinario	Small Animals
Monge Veterinarios SLP	Food animals
Moralzarzal Veterinaria	Small Animals
Mundocan C.V.	Small Animals
Murube y Barrero S.L.	Equines
Noroeste Veterinaria C.V.	Small Animals
Nuevo Versalles Centro Veterinario	Small Animals
Nuevo Zoo C.B.	Small Animals
Ocaña C.V.	Small Animals
Oncovet	Small Animals
Openvet Centro Veterinario	Small Animals
Opera C.V.	Small Animals
Oroquieta Centro Veterinario	Small Animals
Ortega Y Gasset C.V.	Small Animals
Oslo C.V	Small Animals
Palomeras C.V.	Small Animals
Parla Centro Veterinario	Small Animals

External Entities Associated to the COLVEMA (Official College of Veterinary Surgeons of Madrid), with Active Agreement for EPT (cont.)	Area Of Interest
Parque Del Obispo C.V.	Small Animals
Parquelagos Centro Veterinario	Small Animals
Paseo Imperial C.V.	Small Animals
Pavones C.V.	Small Animals
Pelicano C.V. SLP	Small Animals
Pirámides C.V.	Small Animals
Plaza Manuel Becerra C.V.	Small Animals
Puerta De Hierro C.V.	Small Animals
Puerta De Toledo Clinica Veterinaria	Small Animals
Quevedog C.V.	Small Animals
Quintana C.V.	Small Animals
Rafael Alberti C.V.	Small Animals
Ramon Gomez De La Serna Centro Veterinario	Small Animals
Reina Cristina. Centro De Urgencias Veterinarias	Small Animals
Reina Victoria C.V.	Small Animals
Respet Etología	Ethology
Retiro Hospital Veterinario	Small Animals
Ribervet Aranjuez S.L. Hospital Veterinario Postas	Small Animals
Río Duero C.V.	Small Animals
Río Manzanares C.V.	Small Animals
Ríos Rosas C.V.	Small Animals
Salud Animal C.V.	Small Animals
Samivet Hospital Vet.	Small Animals
San Agustín Centro Veterinario	Small Animals
San Bernardo C.V.	Small Animals
San Gumersindo C.V.	Small Animals

External Entities Associated to the COLVEMA (Official College of Veterinary Surgeons of Madrid), with Active Agreement for EPT (cont.)	Area Of Interest
Santa Teresa Centro Veterinario	Small Animals
Savet Hospital Veterinario	Small Animals
Sergio Santos Lopez	Food Animals
Servet-Marjar SLP	Small Animals
Servicios Veterinarios El Viso	Small Animals
Sierra De Madrid Hospital Veterinario	Small Animals
Silvican C.V.	Small Animals
Sirkan C.V.	Small Animals
Soccoopmad C.V.	Small Animals
Somosaguas Centro C.V.	Small Animals
Soto Centro Veterinario	Small Animals
Sur Centro Veterinario	Small Animals
Surbatán C.V.	Small Animals
Un Peludo En Casa S.L.P.	Small Animals
Unzeta C.V.	Small Animals
Usera C.V.	Small Animals
Valdavia Centro Veterinario	Small Animals
Valdebernardo C.V.	Small Animals
Valdelasfuentes Hospital Veterinario	Small Animals
Valdevet	Small Animals
Valleaguado C.V.	Small Animals
Valverde C.V.	Small Animals
Velázquez C.V.	Small Animals
Venus C.V.	Small Animals
Veterclínica Bellver S.L (Arturo Soria)	Small Animals
Veterinánea Hospital	Small Animals

External Entities Associated to the COLVEMA (Official College of Veterinary Surgeons of Madrid), with Active Agreement for EPT (cont.)	Area Of Interest
Veterinaria Vallehermoso S.L.	Small Animals
Veterinarya! Clinica	Small Animals
Vetmas SLP	Small Animals
Vetmed 2004	Small Animals
Vetpa	Animal Welfare
Vetsia Hospital Veterinario	Small Animals
Vicalcan Centros Veterinarios	Small Animals
Villalba Hospital Veterinario	Small Animals
Viñas Viejas C.V.	Small Animals
Virgen De Iciar C.V.	Small Animals
Virgen De Las Nieves Hospital Clínico Veterinario	Small Animals
Zoo C.V	Small Animals
Zooplanet Clinicas S.L.P.	Small Animals
Zoosano C.V.	Small Animals

Annex 3.1.9.

**Logbook of practical skills acquired
during the Rotations**



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Facultad de Veterinaria

**REGISTRO DE HABILIDADES PRÁCTICAS
ADQUIRIDAS DURANTE LAS ROTACIONES**

*LOGBOOK OF PRACTICAL SKILLS
ACQUIRED DURING ROTATIONS*

Nombre:

Datos de contacto (avisar en caso de pérdida):

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A. MANEJO Y CONTENCIÓN DE PEQUEÑOS ANIMALES (Handling and restraint of small animals)

Acercamiento correcto al animal y detección de reacción de alerta (correct approach and detection of rejection attitude)	Manejo del animal desde un transportín/jaula de hospitalización (placement and removal of animals from a transport box/hospitalization cage)	Colocación de bozal (muzzle placement)
Colocación de collar isabelino (Elizabethan collar placement)	Sujección del animal para exploración, toma de muestras (animal restraint for physycal exam, sample collection, etc)	

B. MANEJO Y CONTENCIÓN DE GRANDES ANIMALES Y ANIMALES DE PRODUCCIÓN (Handling and restraint of large animals & food animals)

-

Acercamiento correcto al animal y detección de reacción de alerta (correct approach and detection of rejection attitude)	Colocación de la cabezada y manejo (placement of bridle and handling)	Sujección de bóvidos/équidos para exploración, toma de muestras, etc (animal restraint using nose lead, bridle, etc for physical exam, sample collection, etc)
Sujección de pequeños rumiantes/cerdos (sheep/swine restraint)	Sujección de conejos (rabbit restraint)	

C. ANAMNESIS Y EXPLORACIÓN FÍSICA (Anamnesis and physical exam)

Anamnesis en pequeños animales en 3 casos (anamnesis/patient history in 3 small animals)	Anamnesis en grandes animales en 3 casos (anamnesis/patient history in 3 large animals)	Anamnesis en una colectividad en 3 casos (anamnesis in population medicine in 3 cases)	Exploración física completa en pequeños animales en 3 casos (physical exam in 3 small animals)
Exploración física en grandes animales en tres casos (physical exam in 3 large animals)	Exploración neurológica en un caso neurológico (neurologic exam in a neurological case)	Exploración ortopédica en un caso de traumatología (orthopedic exam in a case of Traumatology)	Exploración genital específica en dos casos: grandes animales y pequeños animales (genital examination in two cases: large animals and small animals)
Análisis de la condición corporal (evaluation of body condition)	Palpación rectal en grandes animales (rectal palpation in large animals)		

D. TOMA DE DECISIONES EN LA CLÍNICA (Clinical decision-making)

Realización de listado de problemas en 3 casos (list of problems in 3 cases)			Realización de protocolo de diagnósticos diferenciales en 3 casos (list of differential diagnostics in 3 cases)			Discusión de elección de técnicas diagnósticas apropiadas en 3 casos (discussion and choice of the appropriated diagnostic techniques in 3 cases)		
Discusión de tratamiento en 3 casos (discussion of therapeutic approach in 3 cases)			Comunicación eficaz con el cliente en 3 casos (effective communication with the client in 3 cases)					

E. TOMA DE MUESTRAS (Collection of samples for diagnostic purposes)

Selección apropiada de tubos y material de recolección de muestras (appropriate selection of collection tubes and other material'collection)	Extracción de sangre (blood collection)
Obtención de orina (urine collection)	Toma de otras muestras biológicas: citología por punción con aguja fina, extensión fecal, raspado de piel, etc. (other sample collection: fine-needle aspiration cytology, fecal smear, skin scrapings, etc)

F. EMPLEO DE TÉCNICAS DE DIAGNÓSTICO POR IMAGEN (Diagnostic imaging techniques)

Protección y seguridad radiológica: conocimiento de empleo de protectores como guantes, delantal o collar tiroideo (radiological protection and security: knowledge of use of protectors such as gloves, apron or thryoid collar)	Posicionamiento del paciente en técnicas de imagen (patient positioning in diagnostic imaging techniques)	Realización de estudio ecográfico (ultrasound evaluation)
Discusión de estudios radiológicos (discussion of radiological studies)	Discusión de estudios ecográficos (discussion of ultrasound studies)	

G. COLOCACIÓN DE VENDAJES (Performing of bandages)

Colocación de vendajes/otras técnicas de
inmovilización (performing of bandages /other
immobilization techniques)

H. TERAPÉUTICA CLÍNICA. ATENCIÓN EN HOSPITALIZACIÓN, URGENCIAS Y CUIDADOS INTENSIVOS (Clinical therapeutics. Attendance in hospitalized animals, emergencies and intensive care)

Atención y evaluación, incluyendo TPR, en 3 casos de urgencias en pequeños animales (clinical attendance and evaluation, including TPR, in 3 emergencies in small animals)	Atención y evaluación, incluyendo TPR, en 2 casos de urgencias en grandes animales (clinical attendance and evaluation, including TPR, in 2 emergencies in large animals)	Colocación de un catéter intravenoso (placement of IV catheter)	Elección y administración de fluidoterapia (appropriate selection and fluid therapy administration)
Administración de fármacos por vía oral (drug administration PO)	Administración de fármacos por vía subcutánea (drug administration SC)	Administración de fármacos por vía intramuscular (drug administration IM)	Diseño y administración de terapia nutricional en animales hospitalizados (design and administration of nutritional therapy for hospitalized cases)
Control de presión sanguínea (blood pressure evaluation)	Control de bioseguridad en animales en aislamiento (biosecurity control in isolated cases)		

I. ANESTESIA (anesthesia)

Evaluación del estado preanestésico (evaluation of the preanesthetic status of the patient)	Diseño de protocolo anestésico (design of anesthetic protocol)	Realización de sedación (sedation induction)
Intubación endotraqueal (endotracheal intubation)	Administración, monitorización y mantenimiento de anestesia (anesthetic administration, monitoring and maintenance)	Control del dolor (pain management)

J. CIRUGÍA (surgery)

Preparación del material quirúrgico, quirófano y paciente (Surgeries' preparation: surgical material, room and patient)	Preparación y actuación como ayudante de cirujano (preparation and performance as assistant surgeon)	Sutura de heridas quirúrgicas (suture of surgical wounds)
Realización de cirugías como ovariectomía, orquiectomía o exéresis tumoral (performance of easy surgical procedures such as ovariectomomy, orchiectomy, tumor exeresis, etc)	Limpieza de heridas, vendajes y otros cuidados postoperatorios (wound cleaning, dressing and post-operative care of surgery cases)	

K. TÉCNICAS DE REPRODUCCIÓN

Citología vaginal y de secreciones genitales (Pap smear and genital secretion cytology)	Inseminación artificial en ruminantes (artificial insemination in ruminants)	Extracción de semen en équidos (semen collection in horses)

L. NECROPSIAS (necropsies)

Realización de necropsias (4 casos): Necropsies (4 cases)			

M. EUTANASIA (euthanasia)

Participación, si procede, en una eutanasia (Participation, if necessary, in a euthanasia)	Manejo apropiado del animal y correcto trato al dueño (Appropriate handling of the animal and correct treatment with the owner)

N. MEDICINA PREVENTIVA DE COLECTIVIDADES (Preventive medicine in population medicine)

Valoración de las medidas de bioseguridad en granjas (assessment of biosecurity measures on farms)	Evaluación de las condiciones de bienestar animal (evaluation of welfare conditions of animals)	Evaluación de la condición corporal y de los programas de nutrición de la población (evaluation of body condition of animals and feeding program of the population)
Revisión de programa de medicina preventiva implementada en una granja (review of health and preventive medicine program implemented in a farm)	Valoración de un programa de control de mastitis en una granja de vacuno lechero (assessment of a mastitis control program in a ruminant dairy farm)	

O. ELABORACIÓN DE CASOS CLÍNICOS E INFORMES (Elaboration of clinical case records and report writing)

Realización de 12 informes. (Elaboration of 12 clinical cases and reports):			
Small Animal Medicine	Small Animal Surgery	Anesthesia	Diagnostic Imaging
Pathology	Large Animal Clinic (horses)	Large Animal Clinic (cattle)	Small Animal Infectious/Parasitic Diseases
Population Medicine (cattle)	Population Medicine (small ruminants)	Population Medicine (pigs)	Population Medicine (poultry)

P. HIGIENE, SEGURIDAD Y TECNOLOGÍA DE LOS ALIMENTOS (Food technology, and food hygiene and security)

Elaboración de alimentos de origen animal, considerando las bases tecnológicas e higiénico-sanitarias específicas de cada producto (Production of foods of animal origin, considering the technological and hygienic characteristics of each product)	Aplicación de técnicas de control de calidad y seguridad de los alimentos utilizadas en la industria (Application of food quality and safety control techniques used in the industry)	Redacción de informes técnicos basados en el razonamiento crítico de datos analíticos de control de calidad y seguridad alimentaria (Writing of technical reports based on analytical data of food quality and safety)

Q. PRODUCCIÓN ANIMAL (animal production)

Análisis de información molecular y fenotípica, valoración genética y diseño de apareamientos (Molecular and phenotypic data analysis, genetic evaluation and mating design).	Identificación de materias primas en alimentos para animales (rumiantes, monogástricos y aves). (Sensory evaluation of feeds for ruminants, monogastric species and bird).	Desarrollo de un pienso para gallinas y formulación práctica de dietas caseras (Development of feed for hens and practical pet home-diets).	Formulación de raciones para rumiantes (Practical feed ration formulation and balancer for ruminants).
Valoración de la calidad de los forrajes aplicando el sistema de detergentes para la caracterización de la fracción fibra (Forage quality evaluation using the detergent analysis system to characterize fiber fraction).	Gestión técnica, planificación y manejo de explotaciones bovinas, ovinas y cunícolas (technical management, planning and handling of cattle, sheep and rabbit farms).	Valoración de la calidad de productos de origen animal (huevos). (Assessment of the quality of animal products (eggs)).	Diseño de instalaciones caninas y acuícolas (design of facilities for canine and aquaculture)

Every acquired skill should be accredited by the trainer, with signature and date

Habilidades adicionales (<i>additional skills</i>)	Acreditación por el formador (<i>trainer accreditation</i>)			

Habilidades adicionales (<i>additional skills</i>)	Acreditación por el formador (<i>trainer accreditation</i>)			

Habilidades adicionales (<i>additional skills</i>)	Acreditación por el formador (<i>trainer accreditation</i>)			

Habilidades adicionales (<i>additional skills</i>)	Acreditación por el formador (<i>trainer accreditation</i>)			

Habilidades adicionales (<i>additional skills</i>)	Acreditación por el formador (<i>trainer accreditation</i>)			



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Annex 4.1.2.

Premises for practical work

Premises for Practical Work at the FVM, UCM

Hall	Laboratory/Classroom	Department	Location	Subjects that use this space
1	Dissection Room	Anatomy	Morphology Pavilion, Floor 0	Anatomy and Embriology I
				Anatomy and Embriology II
				Clinical Medicine of Exotic Pets
2	Classroom 10	Animal Production	Zootechnics Pavilion	Animal Production Basis I
				Animal Science Bases I
				Animal Science Bases II
3	Laboratory	Biochemistry	Main Building, Floor -2	Biochemistry
				Chemistry, Zoology and Botany Applied to Veterinary
4	Computer room 1	Central Services	Main Building, Floor 0	Deontology, Legal Medicine and Legislation
				Epidemiology
				Animal Physiology I
				General Pathology
				Animal Physiology II
				Animal breeding in species of veterinary interest
				Animal Science Basis I
				Toxicology
				Clinical Pharmacology and Pharmacotherapeutics
				Pharmacology and Pharmacy
				Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health
				History, Documentation and Theory of Veterinary Medicine
				Clinical Medicine of Exotic Pets
				Veterinary Sciences and Environment

Premises for Practical Work at the FVM, UCM (cont.)

Hall	Laboratory/Classroom	Department	Location	Subjects that use this space
5	Computer Room 2	Central Services	Main Building, Floor 0	Deontology, Legal Medicine and Legislation
				Epidemiology
				Animal Physiology I
				General Pathology
				Animal Physiology II
				Animal breeding in species of veterinary interest
				Animal Science Basis I
				Toxicology
				Clinical Pharmacology and Pharmacotherapeutics
				Pharmacology and Pharmacy
				Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health
				History, Documentation and Theory of Veterinary Medicine
				Clinical Medicine of Exotic Pets
				Veterinary Sciences and Environment
6	Seminar -2	Central Services	Main Building, Floor -2	Deontology, Legal Medicine and Legislation
				Toxicology
7	Physics Lab	Applied Physics	Main Building, Floor -2	Physics and Biostatistics Applied to Veterinary
8	Laboratory III	Anatomy	Morphology Pavilion, Floor 0	Animal Physiology I
				Genetics
9	Physiology Lab	Animal Physiology	Physiology Pavilpion, Floor 0	Animal Physiology I; Animal Physiology II

Premises for Practical Work at the FVM, UCM (cont.)

Hall	Laboratory/Classroom	Department	Location	Subjects that use this space
10	Pharmacology Lab	Pharmacology and Toxicology	Main Building, Floor -2	Genetics
				Toxicology
				Clinical Medicine of Exotic Pets
11	Laboratory for histology practice (S093)	Animal Medicine and Surgery	VTH, Floor -1	Veterinary Histology
				General Pathology
				Special Pathology
				Aquaculture and Fish Diseases
12	Zoology lab	Animal Physiology	Main Building, Floor -1	Chemistry, Zoology and Botany Applied to Veterinary
				Aquaculture and Fish Diseases
				Veterinary Sciences and Environment
13	Necropsy Room (B239)	Animal Medicine and Surgery	VTH, Floor 0	General Pathology
				Special Pathology
				Clinical Rotation
14	Agriculture Lab	Animal Production	Main Building, Floor 1 ^a	Animal Production Basis II
				Animal Science Basis I
				Animal Science Basis II
15	Laboratory 1	Animal Health	Main Building, Floor -3	Microbiology and Immunology
				Parasitic Diseases
16	Laboratory 3	Animal Health	Main Building, Floor -3	Parasitic Diseases
				Aquaculture and Fish Diseases
17	Laboratory 4	Animal Health	Main Building, Floor -3	Parasitology
				Parasitic Diseases
18	Clinical Pathology Lab (S091)	Animal Medicine and Surgery	VTH, Floor 0	Nosology and Physipathology
				Clinical Diagnosis by Laboratory
19	Room for Equine Physical Exam	Animal Medicine and Surgery	VTH, Floor 0	Clinical Propaedeutics
				Clinical Rotation

Premises for Practical Work at the FVM, UCM (cont.)

Hall	Laboratory/Classroom	Department	Location	Subjects that use this space
20	Lab for Small Animal Physical Exam	Animal Medicine and Surgery	VTH, Floor -1	Clinical Propaedeutics
21	Teaching Farm	Animal Medicine and Surgery	Teaching Farm	Clinical Propaedeutics
				Clinical Rotation
22	Teaching Farm	Animal Production	Teaching Farm	Animal Science Bases I
				Animal Science Bases II
				Rotation in Animal Production
23	Laboratory for Animal Nutrition	Animal Production	Zootechnics Pavilion, Floor 1	Animal Science Bases II
				Veterinary Animal Nutrition
				Aquaculture and Fish Diseases
24	Toxicology Lab	Pharmacology and Toxicology	VTH, Floor 1	Clinical Pharmacology and Pharmacotherapeutics
				Pharmacology and Pharmacy
				Aquaculture and Fish Diseases
25	Service of Obstetrics and Reproduction	Animal Medicine and Surgery	VTH, Floor 0	Obstetrics and Reproduction I
				Obstetrics and Reproduction II
26	Service of Obstetrics and Reproduction	Animal Medicine and Surgery	VTH, Floor -1	Obstetrics and Reproduction I
				Clinical Rotation
27	Laboratory B4	Food Science and Technology	Food Technology Pavilion, Floor 0	Food Technology
				Food Hygiene and Inspection, and Food Safety
28	Classroom A9	Food Science and Technology	Food Technology Pavilion, Floor 1	Food Technology
				Food Hygiene and Inspection, and Food Safety
29	Pilot Food Processing Unit	Food Science and Technology	Main Building, Floor -3	Food Technology
				Rotation in Food Hygiene and Technology
30	Large Seminar (S021)	Central Services	VTH, Floor -1	Special Pathology
				General Surgery and Anaesthesia

Premises for Practical Work at the FVM, UCM (cont.)

Hall	Laboratory/Classroom	Department	Location	Subjects that use this space
31	Boardroom (S110)	Central Services	VTH, Floor -1	Special Pathology
				General Surgery and Anaesthesia
32	Microsurgery Room	Animal Medicine and Surgery	VTH, Floor 0	General Surgery and Anaesthesia
				Special Surgery
33	Anaesthetic Induction Room	Animal Medicine and Surgery	VTH, Floor -1	General Surgery and Anaesthesia
				Clinical Rotation
34	Central Laboratory	Animal Health	VTH, Floor 0	Infectious Diseases
				Parasitic Diseases
				Clinical Rotation
35	Classroom H3	Central Services	VTH, Floor 1	Internal Medicine I
36	Small Animal Clinic Rooms	Animal Medicine and Surgery	VTH, Floor -1	Internal Medicine II
				Special Surgery
				Clinical Rotation
37	Conference Hall	Central Services	Main Building, Floor 0	Preventive Veterinary Medicine, Animal Health Policy, Zoonosis and Public Health
				Graduation Thesis
38	Animal Facility-Animal Physiology	Animal Physiology	Physiology Pavilion	Laboratory Animals
39	Library of Animal Health	Animal Health	Animal Health Pavilion, Floor 1	History, Documentation and Theory of Veterinary Medicine
40	Veterinary Museum	Complutense Veterinary Museum	VTH and Main Building	History, Documentation and Theory of Veterinary Medicine
41	Library	Central Services	Main Building, Floor -1	History, Documentation and Theory of Veterinary Medicine
42	Clinic Room for Exotic Pets	Animal Medicine and Surgery	VTH, Floor 0	Clinical Medicine of Exotic Pets
				Clinical Rotation
43	Animal Facility for Exotic Pets	Animal Medicine and Surgery	VTH, Floor -1	Clinical Medicine of Exotic Pets
44	Degree Room	Central Services	Main Building, Floor 1	Graduation Thesis

Annex 4.1.4.
Additional information of
staff and facilities

Table 4.1.4.a. Service staff for clinical activities.

		Permanent teaching staff	Non-permanent teaching staff	Collaborating veterinarian	Technical staff
Small Animals Area	Internal Medicine	10 Associate Professors + 6 teaching staff from other services	1 veterinarian + 2 specialty interns+ general interns*	4 veterinarians (2 external +2 from other services)	1
	Surgery Service	7 Full and Associate Professors + 4 teaching staff from other services	2 veterinarians + 2 specialty interns + general interns*	1 external veterinarian	2
	Exotic Animals	1 Associate Professor		1 external veterinarian	
	Hospitalisation, IC Unit and ER Service	1 Associate Professor	3 veterinarians + 4 specialty interns + general interns*		2
Large Animals		10 Associate Professors	1 veterinarian + 6 specialty interns		6
Central Services	Anaesthesiology Service	4 Associate Professors	1 veterinarian + 1 ECVA resident + 2 specialty interns + general interns*		1
	Diagnostic Imaging service	4 Associate Professors	2 specialty interns + general interns*	4 external veterinarian	3
	Pharmacy Service	1 Associate Professor			2
Management					12
General Services					7

** 4 general interns rotate among different services*

Table 4.1.4.b. Service staff for diagnostic services (including necropsy).

	Permanent teaching staff	Non-permanent teaching staff	Collaborating veterinarian	Technical staff
Pathology Service	14 Associate Professors	1 ECVP resident		3
Clinical Pathology Service	3 Associate Professors	1 external clinical pathologist		3
Laboratory of Microbiology and Parasitology	5 Full and Associate Professors			3
Reproduction Facility	5 Associate Professors			1

Table 4.1.4.c. Description of Extra-mural Establishments for FSQ & VPH training.

	Processing lines/Activity	Location (Distance)	Transportation	Level of activity/Comments
<u>Slaughterhouses</u>				
Matadero Madrid Norte, S.A.	3 (cattle, pigs and ostriches)	San Agustín de Guadalix (40km)	Small bus from the FVM	Cattle: 25,000head/year Pigs: 250,000 head/year Ostriches: 350 head/year
Matadero Cárnicas de Tabladillo, S. A.	1 (pigs)	Tabladillo, Segovia (101km)	Small bus from the FVM	Pigs: 400,000 head/year
Matadero Carnes Sierra de Madrid, S. A	1 (cattle): conventional, halal & kosher sacrifice	Collado Villalba (36km)	Public or private transport	Cattle: 19,000 head/year
<u>Fish, meat, and fruits central markets</u>				
Mercamadrid S. A	International public/private central market, leader in the distribution of perishable foods	Villaverde, Madrid (13 km)	Public or private transport	Fish and fish products, seafood, meat and meat products, and fruits and vegetables. Provides 2 million Tm per year to 12 million consumers
<u>Industries for the production, processing and distribution of foods of animal origin</u>				
Campofrío, S. A.	Meat transformation industry	Villaverde alto, Madrid (17 km)	Public or private transport	Meat products for human consumption, 250 million consumers in 84 countries
MRM2, S. A.	Meat transformation industry	Móstoles, Madrid (25 km)	Public or private transport	Meat products (boiled and smoked pig, turkey and chicken products) and ready-made meals composed of meat and other ingredients
Confremar, S. A.	Fish transformation industry	Getafe, Madrid (21 km)	Public or private transport	Fresh and cooked fishery products. Annual production around 37,000 Tm.
La Astorgana, S. A.	Fish transformation industry	Alcobendas, Madrid (23 km)	Public or private transport	Fresh and frozen fishery and aquaculture products and smoked fish. Annual production is around 1,200 Tm
<u>Reference official laboratories</u>				
Centro de Investigación y Control de la Calidad	Food analysis and control	Barajas, Madrid (19 km)	Public or private transport	Official food analysis and control laboratory dependent on the Spanish Ministry of Health
Laboratorio Arbitral Agroalimentario (LAA)	Food analysis and control	Madrid (7 km)	Public or private transport	Official food analysis and control laboratory dependent on the Spanish Ministry of Agriculture, Food and Environment.

Laboratorio Municipal de Salud Público	Food analysis and control	Madrid (9 km)	Public or private transport	Official food analysis and control laboratory dependent on the Madrid City Council.
Centro Nacional de Alimentación (CNA)	Food analysis and control	Majadahonda, Madrid (9 km)	Public or private transport	Official food analysis and control laboratory dependent on the Spanish Agency for Consumer Affairs, Food Safety and Nutrition.
<u>Catering and hospital central kitchens.</u>				
Hospital Central de la Defensa	Hospital central kitchen	Carabanchel, Madrid (10 km)	Public or private transport	Central kitchen that serves around 600 meals per day
Scolarest S.A. (Compass Group)	Multinational catering company	Madrid (9 km)	Public or private transport	Elaboration and distribution of meals for several sectors such as industries, companies, hospitals, education centres. Around 210,000 meals per day.
Catergest S. A.	Catering company	Alcobendas, Madrid (9 km)	Public or private transport	Elaboration and distribution of meals for several sectors such as retirement homes, canteens in hospitals, education centres. Daily production is around 18,000 meals.
Bedmar S. A.	Catering company	Rivas-Vaciamadrid, Madrid (27 km)	Public or private transport	Elaboration and distribution of meals for several sectors such as retirement homes and canteens in hospitals, education centres. Daily production is around 1,000 meals

Annex 5.1.3.

List of Farms/External Entities where FVM students acquire practical skills related to Animal Production, Herd Health, Preventive Medicine and Reproduction

List of Farms/External Entities where UCM students acquire practical skills related to Animal Production, Herd Health, Preventive Medicine and Reproduction

Site name	Activity	Species and number of animals
SWINE		
La Serrota (UVESA)	Pig farm site 1	Swine, 2,800 sows
Escolasticos del Campillo	Pig farm site 1	Swine, 1,150 sows +150 gilts
El Espino	Pig farm farrow to finish	Swine, 520 sows and all corresponding growing pigs
Granja Venezuela	Pig farm, site 1	Swine 1,200 sows
Hepelcos (INGAFOOD)	Pig farm, site 1	Swine, 1,800 sows + 200 gilts
Valdaluís II (INGAFOOD)	Pig farm, site 1	Swine, 1,300 sows +150 gilts
Integraciones Arauzo	Pig farm farrow to finish	Swine, 750 sows (growing because the farm is starting) and all corresponding growing pigs
Ibéricos Arauzo	Pig farm, site 1 and 2	Swine, 2,500 sows
INA	Pig farm farrow to finish	Swine, 1,200 sows and all corresponding growing pigs
INGAPOR	Pig farm farrow to finish	Swine, 700 sows and all corresponding growing pigs
Granja Venezuela	Pig farm, site 1-2-3	Swine, 1,200 sows
POULTRY		
Veredas Crespo	Broilers	Poultry, 14,000
Iscar AV Lopez	Layers hens	Poultry, 150,000
Avícola El Balche	Broilers	Poultry, 40,000
Avícola Paris	Layer Hens	Poultry, 200,000 layer hens + 75,000 growing hens
UVESA	Broilers	Poultry, 200,000
Pollo Ugena NUTRAVE	Broilers	Poultry, 32,000
El Canto (1)	Layer Hens	Poultry, 1,000,000 layer hens
El Canto (2)	Layer Hens	Poultry, 600,000 layer hens + 25,000 growing hens
Ataquines	Broilers	Poultry, 60,000
Avícola Barco	Layer Hens	Poultry, 300,000
Collado (UVESA)	Broilers	Poultry, 100,000
Don Jimeno (UVESA)	Broilers	Poultry, 120,000
Avícola Ajofrin	Broilers	Poultry, 30,000
Avimosa	Broilers	Poultry, 34,000
Santiuste	Broilers	Poultry, 23,500

List of Farms/External Entities where UCM students acquire practical skills related to Animal Production, Herd Health, Preventive Medicine and Reproduction (cont.)

Site name	Activity	Species and number of animals
El Ángel	Layer Hens	Poultry, 600,000
Hermanos López	Broilers	Poultry, 35,000
Tablares	Organic Layer Hens	Poultry, 1,200
Pedaque	Organic Layer Hens	Poultry, 2,400
Ecoart	Organic Layer Hens	Poultry, 700
CATTLE		
Herederos Francisco Fernández del Pozo	Beef cow farm	Beef cattle, 450 cows and calves
David Arribas SAT Peñalara	Beef cow farm	Beef cattle, 290 cows and calves
Dehesa Cobos	Beef cow farm	Beef cattle, 500 cows and calves
Cooperativa Miraflores	Beef cow farm	Beef cattle, 540 cows and calves
SAT La Santona	Beef cow farm	Beef cattle, 280 cows and calves
Dehesa de la Serna	Beef cow farm	Beef cattle, 300 cows and calves
Ganadería Braman	Organic beef cow farm	Beef cattle, 316 cows and calves
SAT El Parral	Dairy farm	Cows, 170
Ajucana	Dairy farm	1,200 cows and calves
Mi Vaca	Dairy farm	Cows, 250
Bravo S.L.	Dairy farm	Cows, 700
Cundo, S.A.	Dairy farm	Cows, 940
Ganadera el Prado	Dairy farm	Cows, 270
Guadamur	Dairy farm	Cows, 250
Cooperativa Crica	Organic Dairy farm	Cows, 51
Granja Riopradillo	Organic Dairy farm	Cows, 21
SMALL RUMINANTS		
SAT La Pastora de Guadarrama	Dairy goat farm	Goat, 850
SAT Vega de San Martín	Dairy goat farm	Goat, 1,300
Las Suertes	Dairy goat farm	Goat, 1,200
Suerte Ampanera	Organic dairy goat farm	Goat, 1,682
Ganadería de Cristina	Organic dairy and meat farm	Goat, 60

List of Farms/External Entities where UCM students acquire practical skills related to Animal Production, Herd Health, Preventive Medicine and Reproduction (cont.)

Site name	Activity	Species and number of animals
Ganadería Apisquillos	Organic dairy goat Organic dairy sheep	Goat, 232 Sheep, 315
Granja Espartinas	Dairy sheep	Sheep, 980
Parsan Agropecuaria	Dairy sheep	Sheep, 700
Pedro José Moratilla Fernández	Dairy sheep	Sheep, 900
OTHER EXTERNAL ENTITIES		
Finca RIOSEQUILLO-IMIDRA (Instituto Madrileño de Investigación y Tecnología Agraria y Alimentaria)	Breeding and stallion selection for delivery to farmers in the region by the official authorities	Beef cattle, 115
Center for Technological Transference CENSYRA-IMIDRA	Center for selection and animal reproduction. National Germplasm Bank	42 stallions + 13 rams + 5 bucks + 3 sheep + 18 cattle
Department of Animal Reproduction INIA	National Research Center in Animal Reproduction	Stallions of different breeds and species: Pig, sheep, goat, poultry, mouflon, mountain goat, mice
Animalario CNIO	One of the largest SPF Animal Facility in Europe (research center about cancer)	45,000 mice 100 <i>Xenopus</i> spp. frogs
Clínica IVI-Madrid (Instituto Valenciano de Infertilidad)	Human Assisted Reproduction Center	5600 cycles of in vitro fertilization/year 1800 embryo transfer/year 600 artificial insemination/year
Clínica GineFIV	Human Assisted Reproduction Center	2400 cycles of in vitro fertilization/year 3700 embryo transfer/year

Annex 5.1.4.

**List of Farms/External Entities where
FVM students acquire practical skills
related to Ambulatory clinics**

External Ruminant Farms Attended by Ambulatory Clinics during the last 3 courses

Site	Activity	Number of animals
Hnos. Humanes Madrigal SC, Lominchar, Toledo	Dairy cattle farm	2,000
Carabaña	Dairy cattle farm	1,000
Jose M. Fernández Canales	Beef cattle feedlot	650
Ganados Argylo, Ugena, Toledo	Dairy cattle farm	600
Finca el Palomar, Victoriano del Río, Guadalix de la Sierra	Fighting bulls	400
Hermanos Pérez Villamil, La Losa, Segovia	Beef cattle farm	400
Agropecuaria Ribereña SL, Aranjuez	Dairy cattle farm	400
Jesús Berzal, Valleruela de Pedraza, Segovia	Dairy cattle farm	350
Felipe Ávila e Hijos	Dairy cattle farm	350
Ganadería Montealto, Guadalix de la Sierra	Fighting bulls	300
Palomares Llanos SC, Balisa, Segovia	Dairy cattle farm	300
Getafe Cebadero	Beef cattle feedlot	300
Carlos Delgado Alvarez	Dairy cattle farm	300
Granja de la Morena	Dairy cattle farm	300
Valdenebro CB	Dairy cattle farm	300
Israel de Lema	Beef cattle farm	280
Mauricio y Richar Sánchez	Dairy cattle farm	280
Monte de la Ermita	Fighting bulls	250
Ganadería el Pico SL, Langa, Ávila	Dairy cattle farm	250
El Sat Endrinal	Dairy cattle farm	250
Hermanos del Valle	Beef cattle farm	250
Explotación Óscar Jiménez	70 Fighting bulls 150 Beef cattle farm	220
Alejandro Óscar Martín. Los Molinos	Beef cattle farm	200
El Campillo	Beef cattle farm	200
Fundación Pía Autónoma Virgen de los Dolores	Beef cattle farm	200
Labajo Grande SL, Horcajo de las Torres, Ávila	Dairy cattle farm	200
José Velasco Montero, Ugena, Toledo	Dairy cattle farm	200
Borja del Valle	Dairy cattle farm	200
Cebadero San Juan Bautista	Beef cattle feedlot	200
Luis Miguel Ramos	Beef cattle farm	200
San Juan Bautista	Beef cattle feedlot	200
Finca Óscar Giménez	Beef cattle farm	190
Roberto Martín de Lema	Beef cattle farm	180
Florian Ruse	Dairy cattle farm	180
Maria Blasco Alonso	Beef cattle farm	160
Pedro Herrero Baonza	Beef cattle farm	160
Roman Berrocal Ramírez	Beef cattle farm	160
Finca las Navazuelas	Beef cattle and lamb farm	150
AEYMA	Beef cattle farm	150
SCP Los Pradillos, Horcajo de Torres, Ávila	Dairy cattle farm	150

External Ruminant Farms Attended by Ambulatory Clinics during the last 3 courses (cont.)

Site	Activity	Number of animals
Los Labajos del Corral, Lomo Viejo, Valladolid	Dairy cattle farm	150
Getafe Explotación de Leche	Dairy cattle farm	150
Fernando Guzmán Arroyo	Fighting bulls	150
Margarita Arribas	Beef cattle farm	150
La Solana SC, Muñoz de las Posadas, Ávila	Dairy cattle farm	125
Agropecuaria Alto Jarama	Beef cattle farm	120
Juan Gallardo Gomez	Beef cattle farm	120
M^a Teresa Hijosa	Beef cattle farm	120
Remedios Izquierdo Lopez	Beef cattle farm	120
Vaquería Las Huertas	Beef cattle farm	120
Celia Manso de Lema	Beef cattle farm	115
Santiago Collado Perez	Beef cattle farm	110
Rocío Elvira, Pedrezuela, Madrid	Dairy cattle farm	100
Agroseno SL, Palacios Rubios, Ávila	Dairy cattle farm	100
Ganadería El Rosario, Gascones, Madrid	Beef cattle farm	100
Encarnación Martínez Sedano, Gascones, Madrid	Beef cattle farm	100
Grande San Segundo	Dairy cattle farm	100
Granja Colmenar	Beef cattle farm	100
Gumersindo Vaquero	Beef cattle farm	100
Hermanos González Aparicio	Dairy cattle farm	100
Javier Espinosa Montalvo	Beef cattle farm	100
Jose Carlos Moreno Gonzalez	Beef cattle farm	100
Vicente Avilés e hijos	Dairy cattle farm	100
Fuentelamora	Dairy cattle farm	98
Ganadería Alfredo Fernández	Beef cattle farm	90
Fernando Guzmán Guzmán	Fighting bulls	90
Juan Pablo Garcia e Hijos	Beef cattle farm	90
Rosa M Turegano Jiménez	Beef cattle farm	90
Ismael Domínguez Pericacho, Barromán, Ávila	Dairy cattle farm	85
Víctor Arenas	Beef cattle farm	80
Antonio Mingo Hortal	Beef cattle farm	80
Fernando Lopez Esteban	Beef cattle farm	80
José Ramón Barón	Beef cattle farm	80
Ubaldo Manso Cordero	Beef cattle farm	80
Javier Hernández	Beef cattle farm	70
Ganadería Los Molinos	Fighting bulls	70
Hnos. Navacerrada, San Sebastian de los Reyes, Madrid	Dairy cattle farm	70
Álvaro Martín, Prádena del Rincón, Madrid	Beef cattle farm	70
Luis Alberto Gonzalez	Beef cattle farm	70
Ricardo Baonza Garcia	Beef cattle farm	70
Agropecuaria Los Quinchos	Beef cattle farm	65
Alicia López Baonza	Beef cattle farm	60

External Ruminant Farms Attended by Ambulatory Clinics during the last 3 courses (cont.)

Site	Activity	Number of animals
Ana M Vallejo Ramos	Beef cattle farm	60
Eugenio de la Morena de la Morena	Beef cattle farm	60
Javier Bartolomé Alvariño	Beef cattle farm	60
Julio Enríquez	Beef cattle farm	60
M Carmen Palomino Herrero	Beef cattle farm	60
María Antonia García	Beef cattle farm	60
Maricarmen Montalvo	Beef cattle farm	60
Raul de Lema Turégano	Beef cattle farm	60
Carmen Maria Pérez del Molino	Beef cattle farm	55
Hermanos González	Fighting bulls	50
Vicente Rueda García, Muñoz de las Posadas, Ávila	Dairy cattle farm	50
Pedro García, Adrada de Pirón, Segovia	Dairy cattle farm	50
Javier Jiménez Pulmariño	Beef cattle farm	50
Jose Carlos Morales Lopez	Beef cattle farm	50
Isabel Serranos	Beef cattle farm	46
Finca Olivares	Beef cattle farm	40
Francisca Yuste Arias	Beef cattle farm	40
José Fernández Gancedo	Beef cattle farm	40
M Carmen Rodriguez Garcia	Beef cattle farm	40
Mariano Romera e hijos	Beef cattle farm	40
Sol del Gamonal	Beef cattle farm	40
Mariano Villegas Herranz	Beef cattle farm	38
José Benito	Beef cattle farm	35
Rocio Esteban Sanchez	Beef cattle farm	35
Ganadería Ecológica San Yago	Beef cattle farm	30
Finca la Granjilla	Beef cattle farm	30
Granja El Chicharrón	20 Beef cattle farm 6 Wagyu 4 Dairy cattle farm	30
Alfredo Gonzalez Lechuga	Beef cattle farm	30
Aniceto Garcia Vela	Beef cattle farm	30
Gerardo Martín	Beef cattle farm	30
Jose Carlos de Mingo Bartolomé	Beef cattle farm	30
Maria Jose Cubo Hernán	Beef cattle farm	30
Mercedes Martinez Alvarez	Beef cattle farm	30
Óscar Martín Sedano, Gascones, Madrid	Beef cattle farm	25
Carlos Pelayo G Ceca	Beef cattle farm	25
Cesar Gonzalez Rozalén	Beef cattle farm	25
José Sánchez	Oxen- Fighting bulls	22
Carlos Bartolomé	Beef cattle farm	20
Fernando Lázaro	Beef cattle farm	20
Luis López Fernández	Beef cattle farm	20

External Ruminant Farms Attended by Ambulatory Clinics during the last 3 courses (cont.)

Site	Activity	Number of animals
José Luis Rodríguez Martín, Nava de Arévalo, Ávila	Dairy cattle farm	20
Alfonso Lopez Baonza	Beef cattle farm	20
Astra Escavacines	Beef cattle farm	20
Emilio Lema	Beef cattle farm	20
Manuel Martin Hijano	Beef cattle farm	20
Matasallana	Beef cattle farm-Studs	20
Rosalía de Lema Matías	Beef cattle farm	20
Fernando Jiménez, Cercedilla, Madrid	Beef cattle farm	18
Jacinto Sanz Esteban	Beef cattle farm	15
Julián Esteban	Beef cattle farm	15
Luis Miguel Lorenzo Orcajo	Beef cattle farm	15
Victorio del Valle	Beef cattle farm	15
Matías Cruz	Beef cattle farm	14
Finca Río Pradillo	Dairy cattle farm	10
Lola García	Beef cattle farm	10
Félix López, Bustarviejo	Beef cattle farm	4

External Equine Facilities Attended by Ambulatory Clinics during the last 3 courses

Site	Number of animals
Hipódromo de la Zarzuela, Madrid	500
Venta de la Rubia. Club Hípico Yabusan	500
Real Club de Puerta de Hierro. Club de Polo	350
Yeguada el Ovelar	200
Finca El Quinto	200
Real Club de Campo Villa de Madrid	180
Club Mirasierra	150
Club de Polo Villafranca	120
Hípica los Jarales	100
Hípica Media Copa	100
Hípica El Álamo	90
Race	90
Hípica La Colina	80
Campo Real Club Hípico	80
Centro Ecuestre El Pinar de las Rozas	80
Real Hípica de Griñón	80
Club Hípico Municipal de las Rozas	80
Hípica La Colina	80
Club Hípico El Encinar de Jade	80
Nueva Real Sociedad Hípica Club de Campo	75
Centro Hípico Sibaris	70
Finca particular Brunete	60
Hípica Madrid Campogrande	60
Finca Montana	60
Club Las Encinas de Boadilla	60
Hípica El Remolino. Navalcarnero	60
Hípica Montuenga. Arganda	60
Finca Navalmelendo	50
Hípica Cabail. Colmenar Viejo	50
Hípica Caño Quebrado	50
Finca Ecuestre El Carretero. El Álamo	50
Asociación Amigos del Caballo. Griñón	50
Club Hípico Leganés	50
Yeguada La Blanca Paloma. El Álamo	50
Quinta el Jaral	45
Hípica El Salobral	40
Club Hípico Las Palomas	40
Cuadra particular Andrés Caballero	40
Hípica privada Las Tejas. Aranjuez	40

External Equine Facilities Attended by Ambulatory Clinics during the last 3 courses (cont.)

Site	Number of animals
Hípica Las Lagunas. Arganda	40
Yeguada Manuel Leal. Torres de la Alameda	40
Hípica El Quijote. Leganés	35
Finca San Martín de la Vega	30
Made in Spain	30
Hípica Sierra Norte	30
Hípica El Duende. Aranjuez	30
Agroalimentaria Vegajarama. Uceda	30
David Morante. Los Hueros	30
Hípica El Rancho. Alcalá de Henares	30
Hípica La Huerta. Griñón	30
Hípica La Mina. Navalcarnero	30
Hípica Rocinante. Alcalá	30
El Quemadillo	28
Hípica La Solera	25
Finca Cerro Grande. Colmenar Viejo	25
Finca Mazantinni. Illescas	25
Hípica Fuente de la Teja. Valdeavero	25
Club Hípico Cairel. Navalcarnero	24
Hípica Harmonía	23
Adela Galiana. Villaviciosa de Odón	23
Hípica El Llano. Carabaña	22
El Molino Amarillo	20
Finca Tres Cantos	20
Hípica El Pardo	20
Cuadra Verdejo	20
Emilio Rubio. Coslada	20
Fernando Plaza. Ciempozuelos	20
Finca El Pino. Griñón	20
Hípica Aranjuez	20
Hípica El Tejón. Chinchón	20
Hípica La Caprichosa. Los Santos de la Humosa	20
Hípica Montetría. Villamanta	20
Miguel García. Campo Real	20
Rancho Saray. Villa del Prado	20
Rogelio Cedillo. Yuncillos	20
Antonio Gallego. Ajalvir	17
Criadero Toledo	15
Cuadra Manuel del Olmo	15

External Equine Facilities Attended by Ambulatory Clinics during the last 3 courses (cont.)

Site	Number of animals
Hípica Chacón. El Escorial	15
Antonia Martín. Torrejón de Ardoz	15
Hípica El Cortao.. Aranjuez	15
Joaquín Moreno Silva. Santa Cruz de la Zarza	15
Santillana Paddocks. Manzanares El Real	12
Angel Mora. Villarejo de Salván	12
Domingo Navarro. Meco	12
J. A. Alejano. Mejorada del Campo	10
José Angel Pérez. Aranjuez	10
Juan Carlos Arquer. Mejorada	10
Julián Gil. Perales del Río	10
La Cartuja. El Casar	10
Luciano Delgado. Mejorada	10
Ramón Rodríguez. Navalcarnero	10
Adolfo Pajares. Valdilecha	8
Hípica Xanadú. Navalcarnero	8
Alejandro Izquierdo. San Martín de la Vega	7
Carmelo Niño. Arganda	7
Adrián López Sanmiguel. Velilla de San Antonio	6
Alejandro Lerma. Chinchón	6
Angel Megía. Corpa	6
Francisco José Avilés. Tielmes	6
Hípica El Corcel. Arroyomolinos	6
Finca Los Palos. Miraflores de la Sierra	5
Andrés Klepuzewski. Perales del Río	5
Jonathan Alonso. Métrida	5
Finca Alalpardo	4
Agatha Ruiz de la Prada. Brea de Tajo	4
J. A. de Mingo. Arganda	4
Asociación Unicornio Azul. Yunquera de Henares	3

Annex 10.1.2.

European and National Diplomates

Table 10.A. European Veterinary Diplomates among FVM teaching staff

European College	Number
ECAR (European College of Animal Reproduction)	2
ECBHM (European College of Bovine Health Management)	1
ECVP (European College of Veterinary Pathologists)	4
ECPVS (European College of Veterinary Poultry Science)	1
ECVAA (European College of Veterinary Anaesthesia and Analgesia)	1
ECLAM (European College of Laboratory Animal Medicine)	1
EVDC (European Veterinary Dental College)	1
EECVECC (European College of Veterinary Emergency and Critical Care)	1
ECVS (European College of Veterinary Surgeons)	1
ECVPT (European College of Veterinary Pharmacology and Toxicology)	1
EVPC (European Veterinary Parasitology College)	8
ECPHM (European College of Porcine Health Management)	2

Table 10.B. Accredited by AVEPA among FVM teaching staff

Specialty	Number
Anaesthesia and Analgesia	5
Cardiology	1
Dentistry and Oral Surgery	3
Dermatology	2
Diagnostic Imaging	3
Emergencies and Critical Care	2
Internal Medicine	4
Neurology	2
Oncology	2
Soft Tissue Surgery	1
Traumatology and Orthopaedics	1

Annex 10.1.3.

**Participation of the FVM students in the
National Congress on Undergraduate
Research in Health Sciences**

Annex 10.1.3. Participation of FVM students in the *Congress on Undergraduate Research in Health Sciences*. (in brackets, the percentage of total)

Year	Scientific communications	Veterinary vs. other Health Degrees	Candidates to prize	Oral communications	No. of student's attendance	Optional credit recognition
2014	528	128 (24.2%)	56 (36.6%)	143 (48.9%)	1315	289
2015	520	163 (31.3%)	42 (20.9%)	133 (48.5%)	1264	466.5
2016	562	174 (31.0%)	40 (24.8%)	150 (49.8%)	1551	315.5

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