

4) Facilities and equipment

4.1. Factual information

4.1.1. Description of the location and organisation of the facilities used for the veterinary curriculum

The ULPGC is located mainly on the island of Gran Canaria with a total constructed area of 2,000,000 m² distributed between several campuses (Tafira, San Cristobal, Obelisco, Arucas, Taliarte and Vegueta). Also, two small campuses are located on the islands of Lanzarote and Fuerteventura.

The Veterinary Faculty is located on the Arucas Campus of the ULPGC. Our campus (approx. 35,000 m²) is in the north of the island, some 8 km from the capital, Las Palmas de Gran Canaria city, along the GC-2 motorway. It is in within the town boundaries of Arucas, hence the name of the Campus.

This location, on an agricultural and livestock campus, next to the Experimental Farm of the Cabildo de Gran Canaria and the School of Agrarian Qualifications of the Canarian Government, allows the housing of production animals given that there is no nearby population.

The Faculty at the **Arucas Campus** consists of several modules ([see map](#)):

Building	Facility	Area
Module 1	Veterinary Teaching Hospital: Large Animal Building	718 m ²
Module 2	Veterinary Teaching Hospital: Small Animal Building	907 m ²
Module 3	Ossuary, Dissection Room and Necropsy Room. Food Processing Pilot Plant. University Institute of Animal Health and Food Safety (IUSA)	1,449 m ²
Module 4	Cafeteria, Student' Representative Office, Classrooms 4A and 4B	733 m ²
Module 5	Faculty Farm, Animal Production Labs and Animal Reproduction Lab. Cheese-making Room	1,125 m ²
Module 6	Classrooms 6A, 6B and 6C, Main hall, Administration, Dean's Office, Library, Study Rooms and locker rooms	3,127 m ²
Module 7	Laboratories and teachers' offices. Department of Animal Pathology, Animal Production and Food Hygiene, Science and Technology	3,288 m ²
Module 8	Graduation Hall.	156 m ²
Module 9	University Institute of Animal Health and Food Safety (IUSA).	1,131 m ²
Module 10	Experimental Animal House and Experimental Surgery	945 m ²

The total area of the buildings is 13,580 m². The total area for car parking is 4,516 m² (266 places).

On the **Taliarte Campus**, at a distance of 28 km in the east of the Island, the Aquaculture facilities are located.

On the **Tafira Campus**, at a distance of 14 km, the basic subjects' departments and labs (Physics, Chemistry, Mathematics and Biology) are located.

On the **San Cristobal Campus**, shared with the Faculty of Medicine and at a distance of 17 km, the *Department of Clinical Sciences* (laboratories of Toxicology and Pharmacology) and the *Department of Biochemistry, Physiology, Genetics and Immunology* (Laboratories of Biochemistry) are located. Also, the Forensic Medicine Institute is located on this campus.

External Facilities:

The extramural practical training programmed in the core subjects is completed using the various facilities listed in ANNEX V.

4.1.2 Description of the premises for:

-) lecturing

A total of 7 lecture halls are available. All halls are fully equipped with a computer, a multimedia projector and Wi-Fi coverage. Some main halls have a digital board (DB), PA System (PA), Air Conditioning (AC) and are Wheelchair Accessible (WA).

Lecture halls	Capacity (number of students)	Location	Equipment
Room 6A (5 th year)	112	Module 6	DB, PA, AC, WA
Room 6B (1 st & 3 rd year)	196	Module 6	DB, PA, AC, WA
Room 6C (2 nd & 4 th year)	132	Module 6	DB, PA, AC, WA
Main Hall (<i>Aula Magna</i>)	180	Module 6	PA, AC, WA
Graduation Hall	60	Module 8	PA, AC, WA
TOTAL	680		

-) group work

Lecture halls	Capacity (number of students)	Location	Equipment
Room 4A	84	Module 4	DB, WA
Room 4B	84	Module 4	DB, WA
Room 7	30	Module 7	
VTH Seminar	20	Module 2	WA
VTH Lab	8	Module 2	WA
Reproduction seminar	6	Module 5	
Computer Room A	20	Module 7	20 PC
Computer Room B	20	Module 7	20 PC
Library Room A	4	Module 6	
Library Room B	4	Module 6	
Library Room C	4	Module 6	
Library Room D	4	Module 6	
IUSA Seminar	20	Module 9	
TOTAL	314		

-) practical work

Multiuser Labs

Facility	Building	Equipment	Subjects users
Faculty Lab 1	Module 7, 1 st floor	Oven, computer, multimedia projector, 12 optic microscopes for students, one microscope with camera, centrifuge, thermostatic bath, 2 magnifiers, analytical balance, fridge.	42521, 42512, 42525, 42508
Faculty Lab 2	Module 7, 2 nd floor	Oven, 2 centrifuges, 7 optic microscopes, 8 magnifiers, 2 heating plates, 2 vortex, shaker, balance, analytical balance, pHmeter, thermostatic bath, seismic sensor, masticator, themocycler, espectrophotometer, fridge, electrophoresis equipment, computer, multimedia proyector.	42511, 42516, 42531, 42536

Faculty Lab 3	Module 7, 1 st floor	Oven, 7 optic microscopes, 2 heating plates, 2 vortex, 2 espectrophotometer, pHmeter, 2 cetrifuges, balance, fridge, computer, multimedia projector.	42503, 42522, 42529	42504, 42525,
Faculty Lab 4	Module 7, 1 st floor	Centrifuge, 5 magnifiers, 8 microscopes, balance, microscope with camera connected with a computer and a digital TV.	42522	
Spectrophotometry Lab	Module 7, 2 nd floor	Victor R Wallec Spectrophotometer connected to a computer, 5 ovens, heating plate, fridge, freezer, water purification system Elix 10.	Multiusers	
Centrifugation Lab	Module 7, 1 st floor	Three centrifuges, Liophylizer, oven, freezer, 2 ultralow temperature freezers.	Multiusers	
Sterilization Lab	Module 7, 1 st floor	Five autoclaves	Multiusers	
Faeces Lab	Module 7, 1 st floor	Balance, oven, centrifuge, heating plate.	Multiusers	
Freezer Lab	Module 7, 1 st floor	Ultralow temperature freezer, 2 freezers, room freezer, room fridge, low temperature oven, oven, heater, low temperature lab oven, fume hood.	Multiusers	
Technical Lab	Module 7, 1 st floor	Ice maker, hybridization oven, water purification system Elix 10 and water purification system MilliQWater.	Multiusers	
Laboratory for Optic Microscopy	Module 7, 2 nd floor	20 Optic microscopes for students, one microscope with camera connected to the TV system for the teachers, slides proyector, computer and multimedia projector.	42501, 42514, 42519,	42509,
VTH Clinical Skills Labs (2)	Module 1 st basement floor	Wet labs completely renewed in 2018. Computer, Multimedia Projectors, clinical examination tables (4 each), inhalation anaesthesia machine, and one dummy dog for training ECG records.	42520, 42533	42528,

Department (Subjects) labs (*non-diagnostic services*)

Facility	Building	Special Equipment	Subjects users
Agriculture Lab	Module 7, 2 nd floor	Spectrophotometers SHIMADZU UV-17000, Equipment for measurement of saturated hydraulic conductivity (K _{sat}), LCPro for measurement of photosynthetic efficiency and soil respiration	42508
Animal Breeding Lab	Module 7, 1 st floor	Nucleic acid sequencer, 2 electroforesis devises, microwaves, centrifuge, balance, magnetic stirrer, pHmeter, fridge, freezer, 2 computers	42516
Animal Nutrition Lab	Module 7, 2 nd floor	Kilogram balance, 2 gram balance, 3 oven, 7 magnifiers, muffle, 2 heating plates, fiber analyzers, computer, <i>in-vitro</i> incubator for accurate digestibility, bag sealer, Parr Model 1563 EA Water Handling, Resultado de imagen de parr 1261 calorimeter, Parr 1261 Bomb Calorimeter, Parr 1755 Printer.	42513
Animal Production Lab	Module 5	Instron (texturometer), Spry dry device. 2D Electrophoresis, PCR, Radio immune diffusion, ELISA, Pilot Cheese factory Milking parlour:: parallell stalls with 12 milkers, cold tanqs (550 L and 150 L) and 2 freezers Dairy room: Fridge, oven, cheese press, 2 water baths, butter machine, skimmer, balance and analytical balance. Meat laboratory: room freezer and room fridge	42530
Chemistry Lab (Lab Q9)	Tafira Campus	2 spectrophotometers, pH-meters, micropipettes, agitators/heaters, conductimetries, digestors' systems for COD, BOD system, Kjeldahl System	42551
Dissection Lab and Ossuary	Module 3	2 anatomic dissection tables with special system for extraction of formaldehyde	42502, 42509
Epidemiology/	Module 7,	Epics Altra HyperSort flow cytometer, 2 incubators P	42507,

Preventive Medicine Lab	2 nd floor	Selecta, laminar flow clean benches. 1 vertical PV-100 and 1 horizontal MH-100 (Telstar), Microscope Olympus, Fluorescence microscope Nikon Eclipse 80i, SLT Spectra Shell Microplate Reader A-5082, Laboratory water bath p Selecta precistern, PHmeter GLP22 (Crison), Microwave Blue sky MGS 18.1 Mettler Toledo balance PL 202-S, Heater/stirrers (P Selecta Agimatic-E and Heidoep MR3001K, fridges and freezer.	42534
Food Safety & Hygiene Lab	Module 7, 2 nd floor	Water filtration equipment, MILLFLEX™ Water activity meter, DECAGON, AQUA LAB SERIE 3 TE Luminometer, XCEL V30.A. SPIN AIR BASIC, DQ 5500 (Microbial contamination meter on air) Also, extractor hoods, infrared stove, balance, pH-meter, heating plates, thermostatic bath, micropipettes, agitators/heaters, conductimeter, portable thermometer, optical microscope, stomacher, portable oil polar compounds meter, tube homogenizer, water turbidity meter and chloride analyser.	42531, 42536
Food Science & Technology Lab	Module 7, 2 nd floor	DESTILATOR FOSS TECATOR, 2100 Kjeltec distillation UNIT, DIGITAL ULTRATURRAX, IKA T25 (scattering instrument). Also, precision weighing, agitators/heaters.	42517
Forensic Genetic Lab	San Cristobal Campus	AutoMate Express. DNA Extraction System. Real Time Thermocycler, Genetic Analyser: sequencer and fragment analyser.	42537
Microbiology Lab	Module 7, 1 st floor	4 Microscopes, 1 magnifier, pH meter, Electrophoresis equipment, Heating plates, Stirrers, Centrifuge, Eppendorf centrifuge, Homogenizer /Digester, 2 stoves	42512
Pharmacology Lab	San Cristobal Campus	Chromatography-liquid, organ bath simulations, fume hood, cell cultures laminar flow clean benche, emulsion equipment for dosage forms, agitator, espectrophotometer, analytical balance.	42515
Physiopathology Lab	Module 7, 1 st floor	Photometer Reflotron™, Proteinogram Digiscan,	42519

4.1.3. Description of the premises for housing:

-) healthy animals

Faculty Farm

Facilities	Building	Size	Capacity
11 livestock for Small Ruminants	Module 5	806,58 m ² (30-167 m ²)	448 small ruminants (>60 kg)
1 livestock for Large Ruminants	Module 5	30,37 m ²	3 bovines (>800 kg)
1 room for rabbits	Module 5	35 m ²	20 females and litters
1 hen house	Module 5	12,15 m ²	58 hen on the ground
1 room for pigs	Module 5	15,52 m ² , divided in three box of 3,36 m ² and other of 5,42 m ²	8 pigs (10-150kg)
Lazaretto (4 box)	Module 5	9,31 m ²	Short procedures in ruminants and pigs.

-) hospitalised animals

Veterinary Teaching hospital.

Facilities	Building	Size	Capacity
Hospitalization for dogs (4 rooms)	Module 2	52 m ²	20 dogs
Hospitalization for cats (1 room) (Cat friendly)	Module 2	8.35 m ²	8 cats
Hospitalization for horses (3 boxes)	Module 1	8.1 m ²	3 horses
Hospitalization for cows (1 box)	Module 2	25.16 m ²	2 cows

Hospitalization for small ruminants (1 box)	Module 2	20.69 m ²	4 small ruminants
Hospitalization for porcine (1 box)	Module 2		1 pig

-) isolated animals

Veterinary Teaching hospital.

Facilities	Building	Size	Capacity
Isolated Consultation for dogs	Module 2	14.88 m ²	1 dog
Isolated Hospitalization Unit for dogs	Module 2		8 dogs
Isolated Hospitalization Unit for cats (Cat friendly)	Module 2	8.43 m ²	6 cats
Isolated Hospitalization for small ruminants*	Module 2	13.97 m ²	2 small ruminants or pigs
Isolated Hospitalization for small porcine *	Module 2	13.97 m ²	
Isolated hospitalization for horses	Under-construction	37.17 m ²	2 horses

* Share facilities

Experimental Animal House.

Facility	Building	Size	Capacity
Boxes C1, 2, 3 (small ruminants/pigs/small animals*)	Module 10, 1 st basement floor	27 m ² (9 m ² each box)	15 small ruminants (>60), 22 pigs (50-70 Kg)
Boxes 2-3-4 (small ruminants/pigs)	Module 10, 1 st basement floor	27 m ² (9 m ² each box)	15 small ruminants (>60), 22 pigs (50-70 Kg)
Boxes 5-6-7 (rodents and rabbits)	Module 10, 1 st basement floor	27 m ² (9 m ² each box)	Maximum capacity based on the maximum number of racks and respective cages: - 110 cages for rat and mice - 40 cages for gerbils and guinea pigs - 5 racks of 6 cages for rabbits.
Box 1. Aquatic Room	Module 10, 1 st basement floor	9 m ²	12 tanks with seawater (100L) 4 aquarium (90L)

* In the event of an outbreak of a Zoonotic and highly contagious disease (i.e. Rabies), these facilities could be used.

4.1.4. Description of the premises for:

-) clinical activities

Veterinary Teaching Hospital. Module 2 Building – Small Animals

Facility	Size	Clinical activity
Examination Room 1	15.74 m ²	Internal Medicine
Examination Room 2	14.40 m ²	Neurology Surgery Traumatology
Examination Room 3	8.96 m ²	Internal Medicine Oncology Endocrinology
Examination Room 4	17.04 m ²	Reproduction Cardiology
Examination Room 5	8.35 m ²	Ophthalmology Dermatology
Feline Examination Room (Cat friendly)	9.60 m ²	Feline Medicine
Exotic Examination Room	10.96 m ²	Exotic Medicine
Surgery Room A	20.00 m ²	Surgery Traumatology

Surgery Room B	20.00 m ²	Ophthalmology Neurosurgery
Diagnostic Imaging Lecturing Room	13.81 m ²	Diagnostic Imaging
CT Room	26.31 m ²	
Conventional radiology Room	14.61m ²	

Veterinary Teaching Hospital. Module 1 Building – Equine Clinic

Facility	Size	Specialized Equipment
Consultation Room for Equine	26.12 m ²	Horse stocks (2)
Equine Radiology Room	30.55 m ²	X-ray Tube
Equine Surgery Room	51.39 m ²	Hydraulic surgery table Inhalation anaesthesia machine
Anaesthesia induction/recovery box	11.12 m ²	Lifting monorail system connecting with Surgery and Radiology Rooms

-) diagnostic services including necropsy

Facility	Building	Specialized Equipment
Food Safety and Hygiene Office (OHAPA)	Module 7 1 st basement floor	MINIVIDAS VIDAS 12, REF. 98707 VERSION A (automated immunoassay for microorganisms' detection). Also, micropipettes, laminar flow hood, stove, heating plates.
Histology Lab	Module 7, 2 nd floor	2 microtomes LEICA RM2135 1 microtome REICHERT-JUNG 2030 1 cryostat REICHERT-JUNG 280 Frigocut 1 paraffin dispenser LEICA EG1160 3 water baths for paraffin sections VOGEL WB693 1 cold plate LEICA EG1150C 1 workstation Hyperclean SHANDON 1 centrifuge Cytospin3 THERMO-SHANDON 1 microscope NIKON Alphaphot-2 YS2 1 fume cupboard FLORES-VALLES 1 fume cupboard CRUMA 1 microwave TEKA MWE200G 3 ovens SELECTA
Immunohistochemistry Lab	Module 7, 2 nd floor	Primary and secondary antibodies. Kits for immunohistochemistry. Magnetic Stirrer with Heating. Refrigerators and Freezers. Precision scales.
Infectious Diseases Lab	Module 7, 1 st floor	PHmeter, balance, heating plate, vortex, 2 optical microscopes, and a microscope with camera connected with TV system for the teachers, laminar flow clean benche, fridge.
Large Animal Internal Medicine Lab	Module 10, 1 st floor	Thermocycler (2720 Applied Biosystem), Electrophoresis system (Consort EV 202). Thermostat (multiplaces, P Slecta) , Centrifuge (5424, Eppendorf), Centrifuge (Nahita 2650), Ultracentrifuge (Alresa, Microcen), Several light microscopes, Several lab disposal materials
Microscopic Diagnosis Lab	Module 7, 2 nd floor	Microscopes, including multi-head microscope (10) and 360° Dual Head Microscope. Storage system for paraffin blocks and stained sections.
Electronic Microscopy Lab (Several rooms)	San Cristobal Campus Floor 0 & 1 st basement floor North Health Sciences Faculty	Ultramicotome Leica Reichert Ultracut S. Carl Zeiss EM910 Electronic Microscope (Electronic Transmission Microscope) Also, extractor hoods, stoves, precision weighing, pH meter, heating plates, ultrasonic bath, centrifuges.

Necropsy Room	Module 3	Refrigerators and (-20°C) Freezers chamber. Tissue processing system. Grossing station (Recirculating Filtered Air). Orthopaedic Oscillating Saw. Endless saw. digital photography camera. Reprovit. Stainless steel tablets. Monobloc Scale. Equipment for washing boots. Electric knife sharpener. Electric hoist.
Parasitology Lab	Module 7, 1 st floor and Module 10, 1 st floor	ELISA reader (Thermo Lab.), thermostatic bath, pHmeter, centrifuge, binocular microscope, microscope (with accessory for fluorescence microscopy). Cell culture (flow chamber, CO2 incubator, etc.) and chromatography equipment. Thermocyclers and electrophoresis equipment for PCR and Real-time PCR.
Large Animals Reproduction Lab	Embryo room: Module 5	2 egg incubators, fridge, oven, microwave, 2 bath heaters, 3 microscopes, centrifuge, freezer and computer.
Small Animals Reproduction Lab	Module 10, 1 st floor	Computer Assisted Sperm Analysis, Olympus CX-41 Laminar flow cabinet, Telstar AH-100 CO ₂ INCUBATOR, CIC Controltenia Also, stoves, precision weighing, pH-meter, heating plates, nitrogen liquid dewars, laparoscopic equipment, ultrasonic bath and centrifuges.
Preventive Medicine Lab	IUSA 1 st floor	Laminar flow clean benches, 4 incubators, heaters and stirrers, Conventional thermocycler, Real time thermocycler, Inverted microscope, centrifuges, vortex, Electrophoresis tanks, fridges and freezer.
Toxicology Lab	San Cristobal Campus	Analytical Equipment: Gas Chromatography – Mass Spectrometry (GC-MS/MS); Liquid Chromatography – Mass Spectrometry (LC-MS/MS); Inductively Coupled Plasma – Mass Spectrometry (ICP-MS); Thin layer Chromatography; Chromatography columns with peristaltic pumps. Laboratory Basic Equipment: centrifuges, extractor hoods, freeze dryer, heating plates, Kjeldahl system, microwave assisted digestion system for ICP, N2 dried system, pH-meter, precision weighing, rotary evaporators, stoves, ultrasonic bath, ultrarrax system for processing samples, vortex.
VTH Clinical Pathology Lab	Module 2, 1 st floor	IDEXX: lasercyte, Snap Reader, Vetstat, Catalyst, VetLab UA and Coag DX. Microscope, Densitometer.

-) FSQ & VPH

Facility	Location	Activity	Subjects users
Gran Canaria Island Slaughterhouse	Las Palmas de Gran Canaria (21 km)	Slaughterhouse	42531, 42536
Food Pilot Plant	Module 3	Food Technology Practical Training	42534
Cheese making room	Module 5	Cheese processing technology	42530
Mercialaspalmas	Las Palmas de Gran Canaria (20 km)	Food Market inspection	42531, 42536
Primary School Bañaderos	Aruca (5.8 km)	School canteen inspection	42531, 42536
Destilería Arehucas	Aruca (5.4 km)	Rum factory inspection	42531, 42536
Fábrica de embutidos CarB	Teror (17 km)	Sausages factory Inspection	42531, 42536
Mercado Central de Las Palmas	Las Palmas de Gran Canaria (10 km)	Food Market inspection	42531, 42536
Café Ortega S.A.	Las Palmas de Gran Canaria (12 km)	Coffee factory Inspection	42531, 42536
Ahembo	Las Palmas de Gran Canaria (12.3 km)	Bottler and vending factory inspection	42531, 42536
Grupo Kalise, S.A.	Las Palmas de Gran Canaria (13 km)	Ice cream factory inspection	42531, 42536

Quesos Bolaños	Las Palmas de Gran Canaria (12.3 km)	Chesses maturation factory inspection	42531, 42536
Juegos San José 1 (restaurante)	Las Palmas de Gran Canaria (11.4 km)	Restaurant inspection	42531, 42536
Juegos San José 2 (restaurante)	Las Palmas de Gran Canaria (11.6 km)	Restaurant inspection	42531, 42536
CAPISA	Las Palmas de Gran Canaria (12 km)	Animal Food Factory	42513, 42530

-) others

Technological Marine Science Park of Taliarte (Subjects 42527, 42525)

Facility	Building	Size	Capacity
UTTP – Pisciculture Technology Transference Unit	Main Module	406 m ²	2 tanks of 2 m ³ 24 tanks of 1 m ³ 56 tanks of 0.5 m ³
EMCRIA – Station to Monitoring and Control of Breeding Stock of Aquaculture Interest Species	Main Module	1312 m ²	2 raceway tanks of 80 m ³ 6 tanks of 40 m ³ 12 tanks of 10 m ³ (3 RAS with 3 tanks each one)
MBS – Bioassay Station	Main Module	567 m ²	48 tanks of 0.5 m ³ (16 RAS with 3 tanks each one)
PPPA – Pilot Plant of Fingerlings Production	Complementary Module	900 m ²	Several units with total capacity of 20 m ³ to microalgae production Several units with total capacity of 30 m ³ to life prey production 2 tanks of 40 m ³ to fish larvae 6 tanks of 2 m ³ to fish larvae 8 tanks of 10 m ³
ECI – Intensive Rearing Station	Complementary Module	1200 m ²	4 tanks of 2 m ³ 45 tanks of 1 m ³ 54 tanks of 0.5 m ³ 90 tanks of 0.2 m ³

Fish species: Gilthead sea bream – *Sparus aurata*, European sea bass – *Dicentrarchus labrax*, Greater amberjack – *Seriola dumerili*, Longfin yellowtail – *Seriola rivoliana*, Meagre – *Argyrosomus regius*, Tilapia – *Oreochromis niloticus*. **Mollusc species:** Abalone – *Haliotis tuberculata coccinea*

-) Facilities for EPT

A total of 46 EPT were completed in 2017-2018, 69 in 2016-2017 and 66 in 2015-2016. For this purpose, a total of 110 different private clinics, institutions or corporations have been used by our students during the last three academic years. Detailed can be found in an ANNEX VI and located in the map in the ANNEX XIII.

In order to guarantee that the private veterinary clinics offered for the EPT meet the relevant national practice standards, the Committee for EPT have decided to include only those external clinics officially registered in the two Canary Islands Official Veterinary Colleges (Las Palmas and Santa Cruz de Tenerife). The registration of the Establishments includes legal and a minimal equipment's requirements. Also, these EPT providers must sign an agreement with the ULPGC. More information is detailed in Chapter 3.

4.1.5. Description of the premises for:

-) study and self-learning

At the Veterinary Faculty in Arucas, a large study room is located in Module 6, on the lower floor

of the library. A total of 139 places are offered. This study room is opened from 7:30 to 24:00 all year round.

Specially designated rooms for working in groups (4) are offered to the students in the library. Students must book the rooms in the Library Office.

Currently the ULPGC libraries do not open at weekends. However, students have 24-hour study rooms managed by the buildings' administrations on several campuses, which are accessed by the university identity card:

- Architecture (Tafira Campus). 4 rooms open from Monday to Friday, from 9:00 a.m. to 6:00 p.m., and at weekends, except in the institutional closing period of August. It has rooms with computers and rooms with electric outlets. 2 of these classrooms, 6 and 8, are silent, except Saturdays, from 9 a.m. to 1 p.m.
- Medicine (San Cristobal Campus) There are areas for night study in the multipurpose room and the hall of the -1 floor of the Administration Module / Library. From 20:45 and at weekends, a university identity card is required.
- Education (Campus of the Obelisco). Study rooms 03 and 06 with free access 24 hours a day, 365 days a year, but with preference for the ULPGC students (when the rooms are full, the university identity card will be requested).
- The Study Room of the Veterinary Faculty (Campus Arucas) opens from Monday to Sunday from 7:30 to midnight. After 8:45 pm and at weekends, a university identity card is required.

-) catering

The cafeteria is located in module 4 and is open from 7:00 to 17:00 from Monday to Friday. An affordable daily menu is offered and also sandwiches, fruits and beverages.

Five microwave ovens are available in the Module 4, in order to heat home-made meals.

Also vending machines are located in the VTH and Module 6.

-) locker rooms

We offer lockers in the main building (Module 6 and next to the study room). Student must request assignment in the Administration of the Veterinary Building.

-) accommodation for on call students

The ULPGC has at its disposal the University Hall of Residence which offers rooms for rent in two Residency Buildings. One building is located on the Tafira Campus (252 individual rooms) and the other in the centre of Las Palmas de Gran Canaria city (58 places). Also, 77 apartments are offered (for 2 people with individual rooms; 154 places) and 4 bungalows for rent, mainly aimed at external visiting academic staff. These residences offer students, teachers and other members of the university community accommodation during the academic year or for short periods if necessary. More information, such as their description, services and costs can be found on the website ([link](#)). Also, accommodation facilities are offered in the neighbourhood School of Agrarian Qualifications of the Canarian Government.

-) leisure

Throughout the Module 6 and 4, there are comfortable spaces which are in high demand by the students because they facilitate the student interaction. Also, several tables are located outside Module 4 (close to the Cafeteria); where the mild climate of the Canary Islands facilitates the use

of this area for most of the year. A Ping-Pong table is available for relaxing.

The ULPGC Sport Service ([link](#)) offers a wide list of indoor and outdoor activities all year round. Information about the cultural activities offered by the ULPGC, and a number of institutions in Gran Canaria can be found on the Vice-rectorate of Culture's website ([link](#)). Also, an extensive cultural agenda is published online ([link](#)) by week ([link](#)).

The student council also organizes several events (a paella competition, International Food Day, Veterinary Day, Carnival party, Oktoberfest and similar) during the academic year in order to finance their end-of-degree trip.

4.1.6. Description of the vehicles used for:

-) students transportation

A private minibus company is used for student and academic staff transportation to the facilities for extramural activities included in core subjects. Private transportation is only provided if no public transportation exists near the facility to be visited. This transportation system costs a total of 12,541€ (2016) and 13,775€ (2017) which is paid by the Faculty.

-) mobile clinics

The VTH mobile clinic for equine medicine is provided with a vehicle owned by the VTH. A maximum of 2 students are programmed for each daily activity carried by equine veterinary clinicians (2 vets).

VTH mobile clinics for ruminants (3 vets), porcine (1 vet) and poultry (1 vet) is provided with the veterinary clinician's private vehicles. A maximum of 3 students are scheduled for every clinician/day.

-) live animals transportation

A vehicle owned by the VTH is used for the transportation of small animals from/to the animal shelter, located at a distance of 1,5 km (by car).

Large animals are transported in private vehicles. These vehicles need authorization from the Animal Health Official Authorities and the animals need a transportation passport for moving from/to farms. All these legal documents and requirements depend on the Canary Islands Governments, Department of Agriculture according to [Law 8/2003, related to Animal Health](#) in Spain and the corresponding European Legislation: [Council Regulation \(EC\) No 1/2005 on the protection of animals during transport and related operations](#).

-) cadavers transportation

A vehicle owned by IUSA is used for the transportation of carcasses from the slaughterhouse. Also, this vehicle is used for the transportation of stranded marine animals. Mostly of the small or large animal carcasses are transported from the clinics or farms to the necropsy room in their owners' private vehicles or using authorized private vehicles (e.g. Ambucan S.L. <http://ambucan.blogspot.com>).

4.1.7. Description of the equipment used for

-) teaching purposes

All classrooms and seminars rooms have appropriate audio-visual equipment and a digital whiteboard. The necessary software is available in the ICT suite, as explained in section 6.1.

-) clinical services

The following clinical equipment is available in the Veterinary Teaching Hospital:

Examination Rooms:

Ophthalmoscopy/Otoscopy, Retinography, Slit lamps, Ocular ultrasound, Electrocardiography, Doppler Tensiometer, echocardiography, Wood lamp, Microscopy, video and camera.

Surgery rooms

Laparoscopy, arthroscopy, endoscopy, anaesthetic workstations with ventilators and ventilatory and anaesthetic gases monitoring, standard monitoring, vacuum aspirators, electric scalpel, Ophthalmic Surgical Microscope, phacoemulsification equipment, cryotherapy equipment, Laser CO₂ Surgery.

Diagnostic Imaging:

X-Rays equipment for Large Animals

X-Rays equipment for Small Animals: NeoVet Premium with Toshiba X-ray tube

CR Digital Radiology system,

Computed Tomography Scanner (Toshiba Astelion® 16 slides)

2 ultrasound machines.

Hospitalization Unit

Fluid therapy infusion equipment, incubators, glucometers,

Clinical Laboratory

IDEXX: lasercyte, Snap Reader, Vetstat, Catalyst, VetLab UA and Coag DX. Microscope, Densitometer.

4.1.8. Description of the strategy and programme for maintaining and upgrading the current facilities and equipment and/or acquiring new ones.

Each unit (the Dean's Office, Administration Offices, the Hospital, Departments, etc.) is responsible for their strategy and the budget distribution, which is subsequently approved by different bodies. Maintenance of the equipment and facilities is included in the routine procedure which every building administrator/department director is responsible for with their own budget. There is a QAS procedure related to the management of resources ([PAC02](#)) and a QAS procedure for the management of services ([PAC03](#)). The renewal and acquisition of equipment and facilities depend on budget availability, which, in turn, depends on the endowment that the ULPGC assigns to the different units. In addition, funds from research activities also contribute to upgrade ULPGC facilities and equipment.



4.1.9. Description of how and by who changes in facilities, equipment and biosecurity procedures are decided, communicated to staff, students and stakeholders, implemented, assessed and revised.

The **Administration Offices** are administrative units for the economic, infrastructure and facilities management of the Faculties, Schools, Research Institutes, Structures and other dependencies are responsible. At the head of each Administration Office there is a Building

Administrator, who acts under the direction of the ULPGC General Manager and in coordination with the Dean. They are responsible for, among other duties, the provision of adequate administrative support and the functional leadership of all the Administration and Support Staff assigned to the Faculty building (Article 178 of the ULPGC's Statutes). The Building Administrator for the Faculty of Veterinary Medicine has their office located in the Veterinary Administration Offices (Module 6), close to the Dean's Office. Therefore, the supervision of the general maintenance of the buildings corresponds to the Building Administrator. Also, they are responsible for the monitoring of several outsourced services such as the Cafeteria, Security and Cleaning Services.

The Dean is the responsible for the QAS procedure [PAC02](#) related to the management of material resources (facilities and equipment). The Building Administrator is the responsible for the QAS procedure [PAC03](#) related to the management of services (administrative, economic, building maintenance, outsourced services, etc).



In relation to the management of facilities, the **Works and Installations Service** (Central Service of the ULPGC) is responsible for the supervision of larger construction projects, the supervision of administrative actions in the case of larger building work, the control of economic actions in larger building work, the supervision of delivery to buildings, the drafting of minor building works projects, the direction of minor building work, the economic management of minor building work, the supervision and control of outsourced management services, the management of the maintenance staff duties and reporting on the situation of infrastructures.

The ULPGC, by means of the Experimental Animal Research General Service (SGIAE), managed by the FCPCT, is the administration unit responsible for the management of the official documents for working with animals (including legal authorizations for research -ethical procedures-, animal transportation health certificates, animal welfare, animal by-products waste management, etc.). The SGIAE is in charge of ensuring animal welfare, specifically in terms of the Royal Decree 53/2013, of February 1 (BOE nº 34), *which establishes the basic rules applicable for the protection of animals used in experimentation and other scientific purposes, including teaching*; this is the translation to Spanish legislation of the [Directive 2010/63/EU of the European Parliament and of the Council of 22 September 2010 on the protection of animals used for scientific purposes](#).

Biosecurity concerns every person attending to the Faculty of Veterinary Medicine facilities and extramural facilities. Therefore, all the University Community is aware of the biosecurity rules approved by the Faculty Board and proposed by the Biosecurity Committee. The Biosecurity Committee is advised by the ULPGC Central Service responsible for the Occupational Risk Prevention Office. All the documents and the information are published on the Faculty Website ([link](#)). Students and Staff are trained in the Biosecurity Manual and Rules. Poster and Notices are also placed throughout all the facilities for other stakeholders. Therefore, they are used as a remainder for students and staff and for advice for external visitors.

4.2. Comments

Although the Faculty of Veterinary Medicine is located on a separate campus from the rest of the University, it is well connected by private and public transport. The only inconvenience of our campus, which is repeatedly mentioned in student complaints, is the distance from the Faculty to the bus stop on the northern highway and the insufficient pedestrian access. This circumstance has been partially solved by the cycle service provided by the ULPGC mornings (8:00 – 9:00) and afternoons (17:30 – 18:30) which is available from Monday to Friday. This free service is used by both students and staff, and it connects the bus stop on the highway with the Faculty and

vice-versa.

We should also highlight the extensive opening time of the study room available on the Arucas Campus. Students have the opportunity to study at our Faculty all year round from early morning until midnight, including weekends (See Chapter 6).

The VTH has recently been refurbished in order to increase the number of examination rooms and to completely separate the feline clinic from the canine one. Also, the isolation area has been improved for small animals.

Recently, the staff member responsible for the Food Technology Plant retired. The ULPGC is planning to offer a new Academic Staff position for the Food Technology Area. Therefore, an increase in the activity at the Food Technology Plant will be evidenced in the coming years.

Over the last two years, the ULPGC has increased the funding for the re-equipment programs. Different Department have the opportunity to include proposals for new equipment for the improvement of teaching activities. During 2017, two new wet labs were equipped for clinical workshops. Also, during 2018, the Faculty has acquired the following items: blood pressure equipment, several microscopes, a sterilization unit, a cutting saw, inertial sensors, a spectrophotometer, ultrarrax dispersers, weighing equipment, an endoscope camera and image processor, micropipettes and others.

In relation to the suggestion in the previous final report, the Faculty of Veterinary Medicine understands the suggested benefits of the creation of our own extensive multispecies farm. This is a project to be developed in the near future. Nowadays, the limited land area of the Campus, local land shortage and the lack of adequate financing required has led to the conclusion that is not urgently necessary to build and maintain our own multispecies farm in order to guarantee the acquisition of Day-One Competences. Instead of that, a wide number of farms are available in the Canary Islands, mainly in Gran Canaria. These external facilities, as shown previously, are used to achieve the undergraduate learning outcomes described in the different subjects of the *curriculum*.

Also, we should consider that, in relation to the needs for teaching materials, the QAS has incorporated a procedure for the management of material resources ([PAC02](#)) which is always adapted to the needs and expectations of the stakeholders.

4.3 Suggestions for improvement

Since the distance from the Faculty to the bus stop cannot be reduced, in order to address the continuous complaints related to the lack of a pedestrian connection between the Veterinary Faculty and the Highway, a circular bus connecting the bus stop and the Faculty has been enabled. On the other hand, it is necessary to improve the pedestrian walkway from the main entrance to the adjacent Agriculture School for adequate access on foot. This is a major work that should be financed by the *Consejería del Sector Primario y Soberanía Alimentaria del Cabildo de Gran Canaria* (Government of the Island of Gran Canaria), which is the owner of this road. There are agreements to start the works in 2019

Although the number of intramural large animal cases (see chapter 5) is limited, the Faculty has been encouraged to increase an extension of the hospital is needed for equines and ruminants. During the writing of this SER, the ULPGC has approved the budget for starting the equine isolation unit (ANNEX VII) and the next step will be the Large Animals hospitalization area (see initial proposed project in ANNEX VIII).