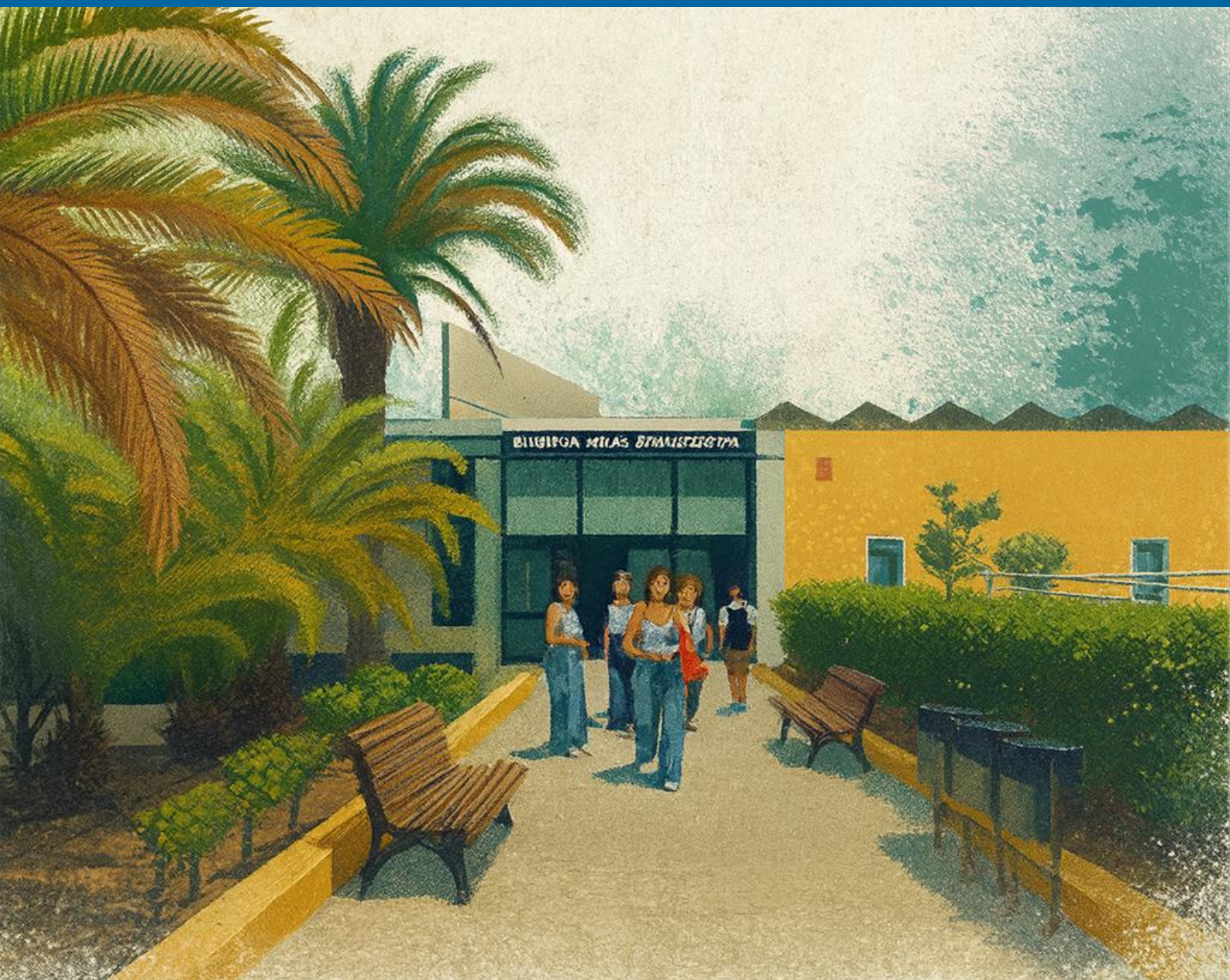




Veterinary Faculty ULPGC
Self-Evaluation Report (SER)
2025
1st-5th December 2025

Area 4. Facilities and equipment

Standard 4.1: All aspects of the physical facilities must provide an environment conducive to learning, including internet access at all relevant sites where theoretical, practical and clinical education takes place. The VEE must have a clear strategy and programme for maintaining and upgrading its buildings and equipment. Facilities must comply with all relevant legislation including health, safety, biosecurity, accessibility to people including students with a disability, and EU animal welfare and care standards.

The FVULPGC is located at the Arucas Campus (approx. 35,000 m²), 8 km from Las Palmas de Gran Canaria. It is adjacent to the Experimental Farm of the Cabildo de Gran Canaria and the School of Agrarian Qualifications (Government of the Canary Islands), ensuring appropriate conditions for teaching, animal housing and research. The campus comprises several modules (M1–M11), a Laboratory and Accredited Animal Research Facility building and a Large animal Isolation unit, with specialised functions:

- Module 1. Large animal VTH: includes the examination room, x-ray room, operating theatre, sterilization room, offices, horse stalls, hayloft, and gas room.
- Module 2. Companion animal VTH: includes the reception and clinic administration, client waiting room, public consultation rooms, x-ray room, CT scan, sterilization room, pre-operative room, operating theatres, laboratories, hospitalization rooms, treatment rooms, ultrasound room, animal stalls, offices, and storage rooms.
- Module 3. *Ground Floor*: anatomy and embryology area, including the bone collection, anatomy room, necropsy room, dissection room and laboratories. *Upper Floor*: University Research Institute of Animal Health and Food Safety (IUSA).
- Module 4. Contains the cafeteria, the student union office, classrooms (4a and 4b), and offices.
- Module 5. VTF: includes the production and reproduction units laboratories and animal stalls, shared animal stalls, milking room, cheese dairy, milk processing room, isolation room, and offices.
- Module 6. Classrooms (6a, 6b, 6c, and main hall (*Aula Magna*)), the concierge office, the administration of the veterinary building, the library, the dean's office, vice-dean's office, secretariat, board room, and basement with storage and services.
- Module 7. Contains 22 faculty offices, 23 laboratories, the computer room, the administration office of the department of animal pathology, animal production, bromatology and food technology, and the departmental section of the department of morphology.
- Module 8. Graduation hall.
- Module 9. IUSA main office and laboratory building.
- Module 10. Experimental animal facility.
- Module 11. Campus wastewater treatment plant.
- Large Animal Isolation Unit. Building dedicated to the isolation large animals under suspicion of carrying an infectious disease, based on the VEE biosecurity procedures.

A [virtual tour](#) of the VEE is available online on the ULPGC webpage, including 360° view of the campus and a [video guide](#). In addition, maps can be found on Appendix 4.1.

Additional facilities dedicated to undergraduate teaching for our veterinary degree students are located at Tafira (basic sciences), San Cristóbal (clinical sciences, biochemistry, pharmacology), and Taliarte (aquaculture). Extramural agreements with farms, clinics and food industries complement training.

The ULPGC offers Wi-Fi access across all campuses and facilities for the university community and authorized users. Students and staff can connect via Eduroam, a secure global service for academic and research institutions that works in any participating centre once configured. Visitors can use the ULPGC-Guest users network (or ULPGC where not available), accessing with credentials provided by their host or building administration; temporary accounts (24h or longer) can be requested through the ULPGC IT Support platform. Connection is automatic via DHCP, requiring only the assigned username and password, and additional assistance for connecting other devices is

available through the university's IT Service. The VEE currently presents a total of 96 Wi-Fi access points on site.

Each unit (Dean's office, VEE site administration, VTH, Vice-Rectorate for Research, departments) manages its own strategy and budget, later validated at different levels. Maintenance is handled by building managers or department heads with their budgets, under VEE QAS procedures (management of material resources and management of services). Acquisition or renewal of equipment depends mainly on ULPGC core funds, with research project funds also supporting infrastructure. The VEE and departments additionally take part in the annual ULPGC call for teaching equipment projects.

The facilities of the VEE fully comply with national and EU regulations concerning health and safety, biosecurity, and accessibility. The ULPGC has an occupational risk prevention service and radiological protection unit which coordinates and reviews health and safety and biosecurity procedures on campus. In addition, the VEE presents its own biosecurity committee that is also supported by the ULPGC occupational risk prevention service. All buildings and laboratories meet the standards for occupational safety and emergency protocols, while specific infrastructures (e.g., necropsy room, animal facilities, and clinical hospital areas), as well as extramural activities operate under strict biosecurity guidelines, in accordance with the FVULPGC biosecurity manual. Consequently, the entire VEE community is required to observe the biosecurity regulations approved by the FB, following the recommendations of the biosecurity committee. Furthermore, both students and staff undergo systematic training in accordance with the biosecurity manual and its regulatory framework. Complementary information is also disseminated through posters and notices displayed across the facilities, which function as permanent reminders for the academic community and as guidance for external stakeholders.

The VEE also ensures accessibility for students and staff with disabilities, following Spanish legislation and university policies on inclusion, led by the social action unit of the ULPGC. The assessment of disabilities and special educational needs is carried out by this unit upon request of the students. Following the evaluation of each individual case, the corresponding recommendations are communicated to the Vice-Dean for Students, who is responsible for coordinating the implementation of the required adaptations. These measures are subsequently conveyed to the academic staff responsible for the courses in which the student is enrolled.

Furthermore, the handling, housing, and clinical care of animals are conducted in accordance with European Union (Directive 2010/63/EU of the European Parliament and of the Council of September 22, 2010, on the protection of animals used for scientific purposes) and Spanish (Royal Decree 53/2013, of February 1, which establishes the basic standards applicable for the protection of animals used in experimentation and other scientific purposes, including teaching) directives on animal welfare, thus guaranteeing high ethical and professional standards through the ULPGC animal experimentation ethics committee, accredited by Resolution No. 364 of 05/08/2013 of the Directorate General of Livestock of the Government of the Canary Islands, published on the website of the Spanish Ministry of Economy and Competitiveness on 18/10/2013.

Standard 4.2: Lecture theatres, teaching laboratories, tutorial rooms, clinical facilities and other teaching spaces must be adequate in number and size, equipped for instructional purposes and well maintained. The facilities must be adapted for the number of students enrolled. Students must have ready access to adequate and sufficient study, self-learning, recreation, locker, sanitary and food service facilities.
Offices, teaching preparation and research laboratories must be sufficient for the needs of the teaching and support staff to support their teaching and research efforts.

The VEE has a total of seven lecture halls (6a, 6b, 6c, main hall (*Aula Magna*), graduation hall, 4a and 4b). All halls are equipped with standard teaching resources, including a computer, multimedia projector, and full Wi-Fi coverage. In addition, some lecture halls are fitted with enhanced facilities such as digital boards (DB), public address systems (PA), air conditioning (AC), and wheelchair accessibility (WA), thereby ensuring compliance with quality, comfort, and inclusiveness standards.

The characteristics of the main lecturing halls can be found in Table 4.2.1. A total of 680 seats are available in the main lecturing halls.

Table 4.2.1. Description of the main lecturing halls at the FVULGC

Lecturing halls	Number of seats	Location	Equipment
Room 6A	112	Module 6	DB, PA, AC, WA
Room 6B	196	Module 6	DB, PA, AC, WA
Room 6C	132	Module 6	DB, PA, AC, WA
Main Hall	180	Module 6	PA, AC, WA
Graduation Hall	60	Module 8	PA, AC, WA
TOTAL	680		

The main locations used for group work at the FVULPGC, that includes a total of 302 seats can be found below (Table 4.2.2.):

Table 4.2.2. Description of the main locations used for group work at the FVULGC

Lecturing halls	Number of seats	Location	Equip
Room 4A	84	Module 4	DB, WA
Room 4B	84	Module 4	DB, WA
Room 7	30	Module 7	WA
VTH Seminar	20	Module 2	WA
VTH Lab	8	Module 2	WA
Computer Room A	20	Module 7	20 computers, WA
Computer Room B	20	Module 7	20 computers, WA
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	WA
TOTAL	302		

Laboratory facilities

The VEE provides a wide range of laboratory facilities distributed mainly in Module 7, complemented by specific spaces in the VTH (module 2), module 3 and 5 (VTF). In addition, two other ULPGC campuses (Health Science and Tafira), provide laboratories used for teaching different subjects of veterinary degree.

- *Module 7 – General laboratories*

Faculty Lab 1 (1st floor) is equipped with ovens, computers, a multimedia projector, 12 student optic microscopes, one microscope with camera, centrifuge, thermostatic bath, magnifiers, an analytical balance, and refrigeration equipment. Used in subjects: [42521](#), [42512](#), [42525](#), and [42508](#).

Faculty Lab 2 (2nd floor) contains ovens, centrifuges, microscopes, magnifiers, heating plates, vortex mixers, shaker, balances, pH meter, thermostatic bath, seismic sensor, masticator, thermocycler, spectrophotometer, fridge, electrophoresis system, computer, and multimedia projector. Used in subjects: [42511](#), [42516](#), [42531](#), and [42536](#).

Faculty Lab 3 (1st floor) is equipped with ovens, microscopes, heating plates, vortex mixers, spectrophotometers, pH meter, centrifuges, balances, refrigeration devices, computer, and multimedia projector. Used in subjects: [42503](#), [42504](#), [42522](#), [42525](#), and [42529](#).

Faculty Lab 4 (1st floor) includes centrifuges, magnifiers, microscopes, and a microscope with camera connected to a computer and digital TV. Used in subjects: [42522](#).

- *Module 7 – Specialized laboratories (multiuser)*

Specialized laboratories include:

Spectrophotometry room (2nd floor), containing spectrophotometer Victor R Wallec, ovens, heating plate, fridge, freezer, water purification system).

Centrifugation room (1st floor), containing centrifuges, freeze-dryer, ovens, ultralow temperature freezers

Sterilization/autoclave room (1st floor). Containing five autoclaves.

Faeces processing laboratory (1st floor). Containing balance, oven, centrifuge, heating plate.

Freezer room (1st floor). Containing ultralow temperature freezer, walk-in freezer and fridge, and fume hood,

Technical lab (1st floor). Containing ice maker, hybridization oven, Elix 10 and MilliQWater purification systems, all of which are multi-user facilities.

Microscopy room (2nd floor). Containing 20 student microscopes, one teacher microscope with TV connection, a slides projector, computer, and multimedia projector. Used in subjects: [42501](#), [42509](#), [42514](#), and [42519](#).

- **Module 1 (VTH – large animal facilities)**

Clinical skills lab (basement level). Equipped with computers, multimedia projectors, clinical examination tables, anaesthesia machine, and a dummy dog for electrocardiogram training. Used by subjects: [42520](#), [42528](#), and [42533](#). Furthermore, an expansion of the clinical skills lab of module 1 has been established, a fully equipped veterinary clinical training classroom, developed in collaboration with COLVET-LPA, representing the first type of this joint collaboration strategy in Spain, available for students to practice soft skill and to participate in some of the CPD courses organised by the COLVET-LPA in this facility. This area also includes and endotracheal intubation simulator, 3 limbs for extraction simulation, one limb for bandaging simulation, bovine rectal palpation simulator, and 12 suture simulation pads.

In addition to the VEE managed spaces, the different departments involved in teaching activities at the FVULPGC, also provide a broad range of specialized laboratories distributed across different campuses.

FVULPGC campus (Montaña Cardones)

- **Module 3**

Dissection Lab and Ossuary. Both house anatomical dissection tables with specialized formaldehyde extraction systems. Used in subjects [42502](#) and [42509](#).

- **Module 5 (VTF)**

Animal Production lab. Equipped with centrifuge, freezers, shakers, freeze-drying system, water bath, scale, fume hood, BioRad spectrophotometer, pH meter, hemogram analyser (RAL). Used in subject [42530](#).

Reproduction and obstetrics lab. Provides additional space for teaching . Used in subject [42539](#) and [42542](#).

- **Module 7**

Agriculture Lab (2nd floor). Equipped with SHIMADZU UV-17000 spectrophotometers, hydraulic conductivity measuring equipment (Ksat), and LCPro systems for assessing photosynthetic efficiency and soil respiration. Used in subject [42508](#).

Animal Nutrition Lab (2nd floor). Containing balances, ovens, magnifiers, muffle furnace, heating plates, fibre analysers, computer equipment, an in-vitro incubator for digestibility studies, bag sealer, calorimetry systems (Parr 1261, 1563, 1755). Used in subject [42513](#).

Epidemiology and Preventive Medicine Lab (2nd floor). Equipped with an Epics Altra HyPerSort flow cytometer, incubators, laminar flow benches (Telstar PV-100 and MH-100), 96-well microplate absorbance reader, water bath, precision balances, pH meters, microwave, heaters, fridges, and freezers, supporting subjects [42507](#) and [42534](#).

Food Safety and Hygiene Lab (2nd floor). Contains water filtration equipment (Millflex TM), water activity meters (Decagon AquaLab Serie 3 TE), luminometers, air contamination meters (Spin Air Basic, DQ 5500), extractor hoods, infrared stove, balances, pH-meters, thermostatic baths, micropipettes, agitators, optical microscope, stomacher, oil polar compounds meter, homogenizer, turbidity and chloride analysers. Used in subjects [42531](#) and [42536](#).

Food Science and Technology Lab (2nd floor). Includes distillation system (FOSS Tecator 2100 Kjeltex), digital Ultraturax (IKA T25), precision balances, and heating devices. Used in subject [42517](#).

Animal Breeding Lab (1st floor). Used in subject 42516.

Physiopathology Lab (1st floor). Including a Reflotron photometer and Digiscan proteinogram analyser. Used in subject [42519](#).

Microbiology Lab (1st floor). Including microscopes, magnifiers, pH meters, electrophoresis equipment, centrifuges, homogenizers, digesters, and ovens. Used in subject [42512](#).

Health Sciences campus (San Cristobal campus)

Forensic Genetics lab. DNA extraction systems (AutoMate Express), real-time thermocycler, genetic sequencer and fragment analyzer. Used in subject [42537](#).

Pharmacology lab. Including chromatography systems, organ bath simulations, laminar flow benches for cell culture, emulsion equipment, agitators, spectrophotometers, and balances. Used in subject [42515](#).

Tafira campus

Chemistry lab (Q9). Equipment includes spectrophotometers, pH-meters, micropipettes, agitators, heaters, conductometers, digester systems for chemical oxygen demand, biological oxygen demand and Kjeldahl analyses. Used in subject [42551](#).

At the FVULPGC, the facilities are dimensioned to match the current student intake. Lecture halls, laboratories, and the VTH provide sufficient capacity to accommodate all enrolled students in both theoretical and practical sessions. The distribution of students across multiple teaching spaces, ensures that sizes remain appropriate for effective learning. Continuous monitoring of enrolment numbers allows the VEE to adapt the use of its facilities and resources when necessary.

Study areas

Within the VEE, students have access to a large study hall located in module 6, beneath the library, which accommodates 139 users. This space remains open Monday to Friday from 7:30 a.m. until 20:30 pm. In addition, the [library](#) provides four group study rooms (4 students per room), that students can book through the library office, available from 8:15 am to 20:45 pm. An additional group study area is available in the aisle of module 4, accommodating approximately 30-40 students, with an extended opening time, in order to better cover student needs (7:30 am - 00:00 am). These study spaces are available also in weekends and holidays.

Although ULPGC libraries close on weekends, students can access 24-hour study rooms on several campuses with their university card. On Tafira (Architecture), four rooms are open daily except in August; on San Cristóbal (Health Sciences), evening and weekend spaces are available; and on Obelisco (Education Sciences), Rooms 03 and 06 remain open year-round, 24/7, with priority for ULPGC students.

Catering, lockers, offices, research laboratories, common areas, leisure and accommodation

The VEE offers catering through the cafeteria in module 4 (Mon–Fri, 07:30–17:30), serving daily menus, light meals, fruit, and drinks. Module 4 also has four microwaves for students. Vending

machines in modules 4 and 6 provide snacks and beverages outside cafeteria hours, and free drinking fountains are available in modules 6 and 7.

Lockers are available in the module 6, next to the study room. Students may apply for one through the VEE administration office. Lockers are also available at the VTF and VTH for student use. Toilets are available in all modules with the exception of the Graduation Hall. Showers are available in module 7 (first and second floor), VTF and module 3 (ossuary, dissection room, post examination room).

Academic and research staff offices are primarily located in module 7, with the Dean's and Vice-Dean's office in module 6. Additional lecturer offices are available in the IUSA building and module 4. Research laboratories are distributed between module 7 and VTH and VTF buildings, ensuring adequate and sufficient facilities for teaching and research.

Modules 6 and 4 provide the most relevant student common areas, complemented by outdoor seating near the cafeteria and the entrance to the VTF and leisure facilities such as a ping-pong table. The [ULPGC Sports Service](#) offers year-round activities, while cultural programming is coordinated through the [Vice-Rectorate for Culture, Sports and Society](#). Student representatives also organize events to promote engagement and support the graduation trip.

The ULPGC provides university residences with two main buildings: one on the Tafira Campus (252 single rooms) and another in the city centre (58 places). In addition, 77 two-person apartments (154 places) and 4 bungalows are available, mainly for visiting academic staff. Residences accommodate students, staff, and guests for both full academic terms and short stays. Details on services and costs are available on the ULPGC [website](#). Further accommodation is also offered nearby by the School of Agrarian Qualifications of the Government of the Canary Islands.

Standard 4.3: The livestock facilities, animal housing, core clinical teaching facilities and equipment used by the VEE for teaching purposes must:

- be sufficient in capacity and adapted for the number of students enrolled in order to allow safe hands-on training for all students
- be of a high standard, well maintained and fit for the purpose
- promote best husbandry, welfare and management practices
- ensure relevant biosecurity
- take into account environmental sustainability
- be designed to enhance learning

Livestock facilities – VTF (module 5)

In order to meet the need for teaching and research, the VTF has multi-functional pens for small ruminant, and cattle, that can be adapted to housing fattening pigs when needed, in addition to a dedicated room for rabbit housing and a hen house for laying hens. The VTF contains a procedure room, where ultrasound are performed, two animal isolation rooms, a milking parlour for small ruminants, milk tank and a cheese production area, and production and reproduction laboratories used for research and student instruction, in addition to the animal housing section described in Table 4.3.1.

Table 4.3.1. Description of the main animal housing section at the VTF

Facilities	Building	Size	Capacity
11 pens for small ruminants*	Module 5	1000.70 m ² (37.06-131.56 m ²)	333 small ruminants (>60 kg)
1 pen for large ruminants	Module 5	44.23 m ²	2 bovine (600-800 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
Isolation unit	Module 5	38,78 m ²	4 boxes. 10 small ruminant/5 pigs

* A 104.12 m² is adapted when needed for porcine use. 6 fattening pigs (30-120 kg) are housed in this pen every academic year

VTH (Module 1 and 2)

Regular hospitalisation capacity at the VTH can be found in Table 4.3.2. The clinical facilities include five general examination rooms ranging from 8.35 to 17.04 m², dedicated to disciplines such as Internal medicine, neurology, traumatology, oncology, endocrinology, reproduction, cardiology, ophthalmology, rehabilitation, and dermatology. In addition, specialized premises are available, including a clinical pathology laboratory (42 m²), feline-friendly consultation room (9.60 m²) and an exotic animal room (10.96 m²). Surgical activities are carried out in two operating theatres (each 20.00 m²), with Room A devoted to general, trauma, ophthalmic, and neurosurgical procedures, while Room B is equipped for diagnostic imaging. Imaging facilities also comprise a CT room (module 2, ground floor; 26.31 m²), a conventional radiology room (module 2, first floor; 14.61 m²), and a 13.81 m² lecturing area (module 2, first floor) used for teaching in diagnostic imaging. Pharmacy, storage room, changing room, showers and lockers can also be found at the VTH. These facilities provide adequate space and specialization to support the full spectrum of clinical training and care.

Table 4.3.2. Animal housing facilities at the FVULPGC VTH

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

The VTH is equipped with advanced clinical resources to support both patient care and student training. Examination rooms include ophthalmoscopes, retinography, slit lamps, ocular ultrasound, electrocardiography, Doppler tensiometer, echocardiography, Wood's lamp, and microscopy with video and imaging systems. Surgical theatres are equipped for minimally invasive and advanced procedures, offering laparoscopy, arthroscopy, endoscopy, anaesthetic workstations with ventilators and gas monitoring, fluoroscope, vacuum aspirators, electrosurgery, ophthalmic surgical microscope, phacoemulsification, cryotherapy, and CO₂ laser surgery. Diagnostic imaging facilities include large- and small-animal X-ray systems (NeoVet Premium with Toshiba tube), a CR digital radiology system, a Toshiba Astelion® 16-slice CT scanner, and 3 ultrasound units (2x Mindray Vetus 7, 1x Mindray Z60 Vet). The hospitalization unit provides fluid therapy infusion equipment, incubators, and glucometers, while the clinical laboratory is equipped with IDEXX (ProCyte, Catalyst One and Dx, Snap Reader, VetLab UA, Coag DX) and Zoetis (VetScan, iStat, Imagyst), digital screen-coupled microscope and densitometer. Rehabilitation unit includes regular and aquatic treadmill and TENS (Transcutaneous Electrical Nerve Stimulation) for companion animals and extracorporeal shockwave therapy for horses.

Experimental Animal Facility (module 10)

The housing capacity for animals used for research and teaching purposes at the module 10 building can be found on Table 4.3.3. In addition, module 10 has changing room, showers, storage room and a dedicated procedure room available for students.

Table 4.3.3. Housing capacity at the Experimental Animal Facility (Module 10)

Facility	Building	Size	Capacity
Boxes C1, 2, 3 (small ruminants/pigs/small animals)	Module 10, -1 floor	27 m ² (9m ² per box)	15 small ruminants (>60), 22 pigs (50-70 Kg)
Boxes 2-3-4 (small ruminants/pigs)	Module 10, -1 floor	27 m ² (9m ² each box)	15 small ruminants (>60), 22 pigs (50-70 Kg)
Boxes 5-6-7 (rodents and rabbits)	Module 10, -1 floor	27 m ² (9m 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 floor	9m ²	12 tanks with seawater (100L) 4 aquarium (90L)

Diagnostic services including necropsy

Module 3

The necropsy room includes refrigerated chambers and –20 °C freezers, a tissue processing system, a grossing station with recirculating filtered air, orthopaedic oscillating saws, band saw, digital photography equipment, Reprovit macrocope, stainless steel tables, a monobloc scale, boot-washing equipment, an electric knife sharpener, and an electric hoist.

Module 5 - VTF

The large animal reproduction laboratory is equipped with instruments for reproductive techniques, cryopreservation systems with liquid nitrogen, laparoscopic equipment, and complementary laboratory devices.

Module 7

This module includes several facilities. On the first floor, the Food Safety and Hygiene Office (OHAPA) has a MINIVIDAS VIDAS 12 immunoassay system and basic lab equipment (micropipettes, laminar flow hoods, stoves, heating plates). The Infectious Diseases Lab contains microscopes (including one with camera for teaching), pH meter, balances, laminar flow cabinets, and refrigerators. The Parasitology Lab (partly shared with Module 10) is equipped with ELISA reader, centrifuges, fluorescence microscopes, cell culture equipment, chromatography instruments, and PCR systems (conventional and real-time).

On the second floor, the histology laboratory houses Leica and Reichert-Jung microtomes (3x), a cryostat, paraffin dispensers, paraffin water baths, cold plates, Hyperclean workstations, cytospin centrifuges, Nikon Alphaphot-2 YS2 microscopes, extractor hoods, ovens, and a microwave, among other equipment. The Immunohistochemistry Laboratory contains primary and secondary antibodies, IHC kits, magnetic stirrers with heating, refrigerators, freezers, and precision balances. Also on this floor, the microscopic diagnosis laboratory is equipped with several microscopes, including a 10-head multi-head microscope and a 360° dual-head microscope, along with storage systems for paraffin blocks and stained sections.

Module 10

On the first floor, the large animal internal medicine laboratory contains a thermocycler (Applied Biosystems 2720), electrophoresis systems, thermostats, centrifuges (Eppendorf, Nahita, Alresa), ultracentrifuge, and several light microscopes, in addition to standard lab disposables. The Parasitology Laboratory complements that in Module 7, also providing PCR and real-time PCR facilities. The small animal reproduction laboratory is equipped with a computer assisted sperm analysis system, Olympus CX-41 microscope, Telstar AH-100 laminar flow cabinet, CO₂ incubator, stoves, precision balances, pH meters, ultrasonic baths, centrifuges, nitrogen dewars, laparoscopic equipment, and additional cryopreservation and reproductive technologies.

San Cristóbal Campus (Faculty of Health Sciences)

The electron microscopy laboratory, with rooms on floors 0 and –1, is equipped with a Leica Reichert Ultracut S ultramicrotome and a Carl Zeiss EM910 transmission electron microscope. Additional resources include extractor hoods, stoves, precision balances, pH meters, ultrasonic baths, centrifuges, and cleaning systems.

The toxicology laboratory houses advanced analytical equipment such as Gas Chromatography–Mass Spectrometry (GC-MS/MS), Liquid Chromatography–Mass Spectrometry (LC-MS/MS), Inductively Coupled Plasma–Mass Spectrometry (ICP-MS), Thin Layer

Chromatography, and column chromatography with peristaltic pumps. It also contains general laboratory equipment, including centrifuges, extractor hoods, freeze dryer, heating plates, Kjeldahl system, microwave-assisted digestion system, nitrogen dryer, rotary evaporators, stoves, ultrasonic baths, Ultraturrax sample processor, vortex, and precision balances.

IUSA (University Research Institute of Animal Health and Food Safety – FVULPGC campus)

On the first floor, the Preventive Medicine Laboratory is equipped with laminar flow benches, four incubators, heaters and stirrers, conventional and real-time thermocyclers, an inverted microscope, centrifuges, vortex, electrophoresis tanks, refrigerators, and freezers.

FSQ and VPH

The following FVULPGC modules, external facilities and collaborating institutions provide essential support for practical training in FSQ and VPH (Table 4.3.4.), allowing students to carry out inspections, laboratory activities, and applied learning experiences in real professional environments.

Table 4.3.4. Facilities used for FSQ and VTH practical training

Facility	Location	Activity	Subjects users
Food Pilot Plant	FVULPGC - Module 3	Food technology practical training	42534
Cheese making room	FVULPGC - Module 5	Cheese processing technology	42530
<u>Gran Canaria Island Slaughterhouse</u>	<u>Las Palmas de Gran Canaria (21 km)</u>	Slaughterhouse	42531, 42536
<u>Mercalaspalmas</u>	<u>Las Palmas de Gran Canaria (20 km)</u>	Food market Inspection	42531, 42536
Primary School Bañaderos	<u>Arucas (5.8 km)</u>	School canteen inspection	42531, 42536
Destilería Arehucas	Arucas (5.4 km)	Rum factory Inspection	42531, 42536
Fábrica de embutidos CarB	Teror (17 km)	Sausages factory Inspection	42531, 42536
Las Palmas Central Market	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)	Bottling 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)	Cheese maturation factory inspection	42531, 42536
CAPISA	Las Palmas de Gran Canaria (12 km)	Animal feed production facility	42513, 42530

Additional facilities - Technological Marine Science Park of Taliarte

The Technological Marine Science Park of Taliarte ([29 km from the VEE](#)) provides advanced aquaculture facilities for training and research in fish and mollusc production (subjects [42527](#), [42525](#)), giving students hands-on experience in breeding, larval rearing, bioassays, and stock management. The main module houses: a pisciculture transference unit (406 m²; 2×2 m³, 24×1 m³, 56×0.5 m³ tanks); a breeding stock monitoring station (1,312 m²; 2×80 m³, 6×40 m³, 12×10 m³ tanks in 3 RAS); and a bioassay station (567 m²; 48×0.5 m³ tanks in 16 RAS). The complementary module includes a pilot plant (900 m²; 20 m³ microalgae, 30 m³ live prey, 2×40 m³, 6×2 m³, 8×10 m³ larvae tanks) and an intensive rearing station (1,200 m²; 4×2 m³, 45×1 m³, 54×0.5 m³, 90×0.2 m³ tanks).

Standard 4.4: Core clinical teaching facilities must be provided in a veterinary teaching hospital (VTH) with 24/7 emergency services at least for companion animals and equines. Within the VTH, the VEE must unequivocally demonstrate that the standard of education and clinical research is compliant with all ESEVT Standards, e.g. research based and evidence based clinical training supervised by teaching staff trained to teach and to assess, availability for staff and students of facilities and patients for performing clinical research and relevant QA procedures.

For ruminants, on-call service must be available if emergency services do not exist for those species in a VTH. The VEE must ensure state-of-the-art standards of teaching clinics which remain comparable with or exceed the best available clinics in the private sector.

The VTH and any hospitals, practices and facilities which are involved with the core curriculum must be compliant with the ESEVT Standards and meet the relevant national Veterinary Practice Standards.

The VTH operates 24/7 throughout the year and is structured in two main areas according to the species attended: companion animals (canine, feline, and new companion animals) and large animals (equine). Both services provide clinical consultations from 08:30 to 15:00 in a wide range of specialties, including dermatology, ophthalmology, neurology, oncology, diagnostic imaging, cardiology, internal medicine, endocrinology, traumatology, orthopaedics and rehabilitation, soft tissue surgery, nutrition, and reproduction. Emergency and hospitalization services are available 24/7, with independent facilities and staff for companion animals and equines. Clinical training at the VTH is organized in small groups, in order to maximize hands-on learning. Students progressively participate in history taking, physical examination, diagnostic work-ups, treatment planning, and clinical procedures for scheduled patients as well as emergency cases. Clinical rotations begin in the third year and gradually increase in both intensity and responsibility throughout the curriculum, reaching their peak in the fifth year through the core clinical rotations. All clinical activities comply with national standards and are performed or directly supervised by licensed veterinarians, following a problem-oriented diagnostic approach and evidence-based medicine principles.

Clinical practical training with farm animals (cattle, sheep, goats, and pigs) at FVULPGC is primarily delivered through the ambulatory clinic service, although cases can also be referred to and treated at the VTH. These activities are always conducted under the direct supervision of teaching staff. During these rotations, students actively participate in routine clinical practice, including farm visits, herd health management, diagnosis, treatment, and follow-up, thereby acquiring practical skills in a real professional context. For ruminants, emergency coverage at the FVULPGC VTH is provided through an on-call service.

Faculty members and clinical staff at the VTH are registered in COLVET-LPA and follow the ethical standards of the Spanish Veterinary Council. Most clinicians also belong to national associations (AVEPA, AVEE, SECIVE), supporting ongoing professional development. Clinical training is further strengthened by EBVS Diplomates, veterinarians with international residencies, and AVEPA-accredited specialists, covering fields such as wildlife health, pathology, parasitology, aquatic health, imaging, cardiology, internal medicine, ophthalmology, oncology, and orthopaedics (see standard 9.1).

The FVULPGC ensures that its VTH, together with the external practices integrated in the core curriculum, complies with national veterinary practice standards and regulations and ESEVT requirements. The VTH is equipped with modern facilities, advanced diagnostic and therapeutic resources, and specialised services that provide students with a learning environment comparable to leading private clinics. Clinical training is delivered under the supervision of licensed veterinarians and European/national specialists, ensuring both high-quality patient care and the acquisition of professional competences in line with international standards.

All veterinary practices associated to EPT are approved and registered by the Official College of Veterinarians.

Standard 4.5: The VEE must ensure that students have access to a broad range of diagnostic and therapeutic facilities, including but not limited to clinical skills laboratory, diagnostic imaging, clinical pathology, anaesthesia, surgeries and treatment facilities, intensive/critical care, ambulatory services, pharmacy and necropsy facilities. Procedures and facilities should also be available for soft skills training, e.g. communication skills training through role play

At the FVULPGC, all students are provided with access to the diagnostic and therapeutic resources of the VTH, always under the guidance of the academic staff in charge of their practical groups. Upon request to the responsible clinician of each service, students may also consult the clinical records available in the VTH databases. This enables them to follow ongoing hospital cases and supports the preparation of academic assignments, case reports for clinical rotation evaluation, and their e-portfolio.

Extra-mural training activities are organised with transportation arranged by the Faculty, using contracted buses or with ambulatory professionals. During clinical rotations, smaller groups of students accompany the teaching staff responsible for clinical rotation and ambulatory services (farm animals and equine) on visits to collaborating farms and external establishments.

The ossuary and clinical skills laboratory is accessible to students during scheduled supervised sessions, as well as during open practice hours (12:00–14:00) throughout teaching periods for independent training. Access to specific modules of the VEE is granted to students enrolled in the corresponding subjects and remains valid until the completion of their studies. Information on modules and reservations for training sessions are managed through the VEE's reception.

Standard 4.6: Appropriate isolation facilities must be provided to meet the need for the isolation and containment of animals with communicable diseases. Such isolation facilities must be properly constructed, ventilated, maintained and operated to provide for the prevention of the spread of infectious agents, animal care and student training. They must be adapted to all animal species commonly handled in the VTH. When permanent isolation facilities are not available in any of the facilities used for clinical training, the ability to provide such facilities and the procedures to use them appropriately in an emergency must be demonstrated during the visitation.

The distribution of animals at the VTH's isolated hospitalisation unit can be found in Table 4.6.1. Isolation units are dedicated and adapted to each animal species. Dog and cat isolation unit are located at the VTH. The large animal isolation unit is located in a dedicated building in the proximities of module 10. The isolation areas of this building can be adapted to the specific requirements of the species commonly handled at the VTH and others when needed. Handling procedures, including key biosecurity facts such as cleaning and disinfection, animal flow, use of personal protective equipment, risk-based animal classification, etc are available for each facilities in the biosecurity area of the FVULPGC's [webpage](#).

The isolation facilities at the FVULPGC VTH may only be used by personnel who have completed specific training, which includes both theoretical sessions and on-site practical drills. Refresher training is provided annually, as well as to every new professional joining the VTH, ensuring continuous compliance with biosecurity standards. Students receive dedicated instruction as part of the compulsory biosecurity training, and their access to the isolation units is strictly limited to individual entry, always under the direct supervision of teaching staff.

Table 4.6.1. Isolated hospitalisation for animals at the FVULPGC VTH

Facilities	Building	Size	Capacity
Isolated Hospitalization Unit for dogs	Module 2	8.35 m ²	6 dogs
Isolated Hospitalization Unit for cats	Module 2	8.43 m ²	6 cats
Isolated Hospitalization Unit for Large Animals	Large Animal Isolation Unit	2 boxes x 24,1 m ²	2 horses, 2 cows, 10 small ruminant, 10 pigs*

* Not housed simultaneously.

In addition, the VTF is equipped with a dedicated isolation unit for diseased animals and has the flexibility to convert an additional room, currently used for the artificial rearing of kids, into an isolation area if required in the event of an outbreak within the facility.

Standard 4.7: The VEE must have an ambulatory clinic for production animals or equivalent facilities so that students can practise field veterinary medicine and Herd Health Management under the supervision of teaching staff.

Ambulatory clinics for production animals at the FVULPGC are organised throughout the academic year and cover cattle, sheep, goats, pigs, and equine patients. Clinical activities are mainly conducted through the ambulatory service and external establishments with which the VEE has formal agreements. These activities provide students with practical training in both individual clinical cases and herd health management, reflecting the realities of professional field veterinary medicine.

From the third year onwards, and increasingly during the fifth year, students participate in farm visits for herd health management and ambulatory clinic rotations under the direct supervision

of academic staff. Clinical groups are kept small to enhance hands-on learning. Students are actively involved in history taking, clinical examination, diagnostic procedures, treatment planning, and the management of emergency cases.

The ambulatory service for equine is equipped with a VEE-owned vehicle adapted for equine practice, carrying the necessary instruments, medicines, and portable diagnostic equipment (e.g., ultrasound, X-ray, sampling kits). For larger groups and extramural practicals (e.g., farms, slaughterhouses, feed factories, and other facilities), transportation is organised by the VEE, and it is based on the use of minibuses that are hired by the FVULPGC.

Ambulatory clinical training in farm animal medicine also incorporates herd health and production medicine, with specific teaching in areas such as infectious and parasitic diseases, obstetrics and reproduction, and veterinary public health. This integration ensures that students acquire competences not only in individual patient care but also in preventive and population-level approaches, in line with ESEVT standards. See standard 3.1. for a detailed description of the distribution of ambulatory clinical training performed at the FVULPGC.

Standard 4.8: The transport of students, live animals, cadavers, materials from animal origin and other teaching materials must be done in agreement with national and EU standards, to ensure the safety of students and staff and animal welfare, and to prevent the spread of infectious agents.

Transport of student is performed using a minibus service hired by the VEE, that a yearly expenditure of over €22,296.97 for the period 2024/2025.

Large animal transport is carried out using authorised private vehicles. These vehicles must be licensed by the Canary Island's Animal Health Authorities, and all animals are required to travel with the corresponding movement passport (*Guía sanitaria*) when transported to or from farms. Compliance with these procedures is overseen by the Canary Islands Government, Department of Agriculture, in accordance with Spanish Law 8/2003 on Animal Health, Spanish Law 23/2007 for the care of animals in their exploitation, transport, experimentation and sacrifice and the applicable European legislation, specifically Council Regulation (EC) No 1/2005 on the protection of animals during transport and related operations.

The IUSA operates a dedicated vehicle authorised for the transport of carcasses from the slaughterhouse or farms, which is also employed in the recovery of stranded marine animals. Carcasses of small and large animals originating from clinics or farms are generally transferred to the necropsy facilities either by the owners themselves or through licensed private companies. All vehicles engaged in this activity hold specific authorisation for the transport of ABPs, in accordance with Regulation (EC) No 1069/2009 and its implementing Regulation (EU) No 142/2011, together with the corresponding Spanish legislation (Royal Decree 1528/2012).

Standard 4.9: Operational policies and procedures (including biosecurity, good laboratory practice and good clinical practice) must be taught and posted (in different languages if the curriculum is taught in them) for students, staff and visitors and a biosecurity manual must be developed and made easily available for all relevant persons. The VEE must demonstrate a clear commitment for the delivery and the implementation of biosecurity, e.g. by a specific committee structure. The VEE must have a system of QA to monitor and assure clinical, laboratory and farm services, including regular monitoring of the feedback from students, staff and clients.

The ULPGC [Occupational Risk Prevention and Radiological Protection Service](#) safeguards staff health and safety by implementing preventive plans, assessing risks, and promoting a culture of prevention. It centrally manages health surveillance (campaigns, medical exams, consultations, first aid) and oversees hazardous waste management from teaching and research, ensuring compliance with environmental and biosecurity regulations.

At the FVULPGC, the corresponding risk assessments and self-protection plans are available on the VEE's [website](#), through its biosecurity section, and includes the biosecurity manual, and specific biosecurity protocols per area (common areas, VTF, extra-mural farms, VTH (companion animals and large animal isolation unit, radiological diagnostics, laboratory), laboratories, necropsy

rom, dissection room, ossuary and slaughterhouse. These documents are communicated to all staff and students as part of specific training activities are revised annually to ensure their correct application.

The FVULPGC [biosecurity manual](#) collates the standard procedures associated to biological, physical and chemical risks linked to the teaching and research and service activities performed at the VEE (summary in Appendix 4.9). This document is periodically reviewed by the VEE's biosafety committee. This committee chaired by the Dean, is formed by the DT, representatives from anatomy and necropsy areas, teaching laboratories, extra-mural facilities (slaughterhouse), experimental animal facility, and student representatives with the advice of the ULPGC [occupational risk prevention service and radiological protection unit](#). It follows the guidelines of the Spanish and European legislation, as well as the general safety regulations of the ULPGC laboratories.

Both the FVULPGC's and the VTH's Biosecurity Manuals establish the general biosecurity norms, good laboratory and clinical practice to be applied in all academic and professional activities (intra- and extramural). Their application is mandatory for staff, students and visitors. On the first day of class, teachers provide students with detailed information on general biosecurity regulations and the required personal protective equipment (whether personal or provided by the VEE). Before each activity begins, instructors remind students of the applicable biosecurity rules and good practices, ensuring their understanding and compliance.

Principal investigators are responsible for informing new researchers and technical staff about biosecurity measures and good laboratory practices upon their incorporation into research groups.

All biosecurity policies implemented at the FVULPGC are fully aligned with current Spanish and European Union legislation.

Comments for Area 4

The FVULPGC has maintained facilities and equipment fully fit for delivering a high-quality veterinary education, with adequate lecture halls, laboratories and clinical areas across all modules and associated campuses, and robust campus connectivity (96 Wi-Fi access points) that supports learning and clinical activities. The clinical skills lab in the VTH complex is already equipped with relevant task trainers and is complemented by a dedicated veterinary clinical training classroom developed with COLVET-LPA, which together provide a good base for hands-on skill acquisition. Biosecurity, with a special emphasis in the isolation of infectious animals, remains a priority at the FVULPGC, and we continue to improve staff and student training, and procedures to ensure the optimal standards are applied at our VEE. Moreover, the planned improvement of the VTF facilities and expansion of the VTH, both projected between late 2025 and early 2026 will further enhance the learning environment and increase the capacity for skills training across species at the FVULPGC.

Suggestions for improvement in Area 4

The VEE is committed to consolidate and steadily expand the clinical skills lab offer by broadening the range of models and trainers proportionate to curricular demand across species, while progressively extending supervised independent-practice availability. Further development of the skill lab will include a in the Thanks to the agreement with the COLVET-LPA, the FVULPGC will be. Building on the agreement with COLVET-LPA for the clinical skills lab, the FVULPGC also intends to continue advancing its communication role-play area, which is currently in the early stages of development. In parallel, the VTH and VTF leadership remain committed to maintaining current standards and will use the forthcoming facility upgrades to further enhance the educational environment and overall standards of our VEE.



Photographs of the FVULPGC used in the SER were kindly provided by our undergraduate students
Marina Rosa Velázquez Mendoza and Samuel Santana Pérez

 **ULPGC** | **vet**