



ICAR ACCREDITATION 2020

6.4. SELF STUDY REPORT

on

VETERINARY COLLEGE AND RESEARCH INSTITUTE TIRUNELVELI



TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY
CHENNAI – 600 051

6.4 SELF STUDY REPORT

**VETERINARY COLLEGE AND RESEARCH INSTITUTE
TIRUNELVELI**

INDEX

Sl. No	Particulars	Page No.
6.4	Self-Study Report for the Programme	7
6.4.1.	Brief History of the Degree Programme	7
6.4.2.	Faculty Strength	8
6.4.3.	Technical and Supporting staff	11
6.4.4.	Classrooms and Laboratories	12
6.4.5.	Conduct of Practical and Hands-on-Training	23
6.4.6.	Supervision of students in PG/PhD programmes	29
6.4.7.	Feedback of stakeholders (Students, parents, industries, employers, farmers etc.)	30
6.4.8.	Student intake and attrition in the programme for last five years	30
6.4.9.	ICT Application in Curricula Delivery	30
6.4.10.	The information pertaining to 6.4.1 to 6.4.9 shall be provided for each one of UG, PG and Ph.D. Degree Programmes, separately, and to be presented College-wise.	31
6.4.11.	Since the accreditation of Programmes is related to the All India Admission from ICAR and also having weightage for College accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.	31
6.4.12.	Certificate	31
	Annexures	35

**6.4 SELF STUDY REPORT
FOR
UNDERGRADUATE PROGRAMME
(B.V.Sc. & A.H.)**

6.4. Name of the programme: B.V.Sc. & A.H.

(Bachelor of Veterinary Science & Animal Husbandry)

6.4.1. Brief History of the Degree Programme

Veterinary College and Research Institute, Tirunelveli was established as a third constituent college of TANUVAS through the Tamil Nadu government G.O. Ms. No. 93, Animal Husbandry, Dairying and Fisheries (AH-6) Department dated 24/08/2011. Tamil Nadu Veterinary and Animal Sciences University established the Veterinary College and Research Institute with full facilities for Veterinary Education, Research and Extension activities at Ramayanpatti in Tirunelveli, with a total area of 139.21 acres of land and with an initial budget of Rs. 12.59 crores (G.O. No. 93, dated 24/08/2011) to cater to the needs of the southern drought prone district farmers, who mainly depend on dairy, sheep and goat rearing for their daily livelihood and to augment the livestock production activities especially the small ruminant production in the southern districts. Subsequently a comprehensive G.O. sanctioning teaching and non-teaching posts and budgetary provision for civil works and equipment and other infrastructure for the years 2012-13, 2013-14 and 2014-15 has been issued (G.O.Ms.No. 222 dated 20.12.2012).

This college is offering B.V.Sc. & A.H degree programme. Various departments viz., Veterinary Anatomy, Veterinary Physiology and Biochemistry, Animal Genetics and Breeding, Animal Nutrition, Livestock Production and Management, Veterinary Microbiology, Veterinary Pathology and Veterinary Parasitology, Veterinary Pharmacology and Toxicology, Veterinary Public Health, Livestock Products Technology and Veterinary and Animal Husbandry Extension Education, Veterinary Medicine, Veterinary Surgery and Radiology and Veterinary Obstetrics and Gynaecology, Veterinary Clinical Complex and Livestock Farm Complex were established. In addition to this, Departments such as Library science and Bio-engineering have also been established.

Separate hostel facilities have been created for boys and girls. Student's mess facility has been created in the hostel from the inception onwards to provide healthy food at reasonable cost. One warden and four deputy wardens (including two lady deputy wardens) have been appointed to monitor the hostel activities.

A team of experts constituted by the Veterinary Council of India (VCI), New Delhi, inspected the facilities available in the college from 25.06.2012 to 27.06.2012 and the necessary approval was accorded to start first year B.V.Sc. & AH courses. Subsequently, the second year facilities were inspected by the VCI team, between 27.05.2013 and 29.05.2013 and necessary approval was accorded for the second year admission. The third year facilities were inspected by the VCI team, between 26.06.2014 and 28.06.2014 and necessary approval was accorded for the third year admission also. Likewise, the fourth year facilities were inspected by the VCI team between 08.07.2015 and 10.07.2015 and necessary approval was accorded for the fourth year admission. The fifth year facilities were inspected by the VCI team between 25.04.2016 and 27.04.2016 and necessary approval was accorded for the fifth year admission.

One Man Commission from VCI inspected the College on 01.09.2017 and recommended for full and final recognition of the College. Consequently, the college has been approved by VCI and included in the **"First Schedule of Veterinary Colleges of India"**.

After getting the VCI approval in 2012, 40 students were admitted from the academic year 2012-13 to the academic year 2014-15 for B.V.Sc. & A.H. curriculum. From the academic year 2015-16 to 2016-17 60 students are being admitted and from 2017-18 onwards 80 students are being admitted into Veterinary College and Research institute, Tirunelveli for B.V.Sc. & A.H Course.

As on date, nineteen Departments have been established with well recognized modern laboratories and each furnished with modern equipments required for teaching of students and carrying out basic research is available in all departments. The Livestock Farm Complex was established as per the recommendations of VCI, comprising of Cattle, Sheep, Goats, Pigs, Horses and Poultry. In addition to provide practical exposure to the students, day-old chicks of Chicken and Japanese quail are supplied from the Poultry Hatchery to the farmers of

Tamil Nadu. The Veterinary Clinical Complex is established with state of the art facilities for the diagnosis and treatment of animals. Separate Veterinary University Disease Diagnostic Laboratory (VUDDL) with Mobile Disease Diagnostic Laboratory facility is available for the benefit of Livestock farmers. An exclusive Museum for Parasites is available at Department of Veterinary Parasitology. Concentrate Feed Production Unit has been established at Department of Animal Nutrition, VCRI, Tirunelveli.

6.4.2. Faculty Strength

S. No	Name of the Post	Sanctioned	Faculty in place	Vacant Position	Faculty recommended by VCI	Remarks
1	Professor	17	08	09	17	All are permanent appointments
2	Associate Professor	23	14	09	16	
3	Assistant Professor	47	34	13	41	
Total		87	56	31	74	

Department-wise staff particulars

1. Department of Animal Nutrition					
1	Professor	1	1	0	Dr. M. Chellapandian
2	Associate Professor	1	1	0	Dr. N. Arulnathan Assistant Professor Shown against the Post
3	Assistant Professor	2	1	1	1). Dr.D. Thirumeignanam Vacant – 1
Total		4	3	1	
2. Department of Veterinary Anatomy					
1	Professor	1	1	0	Dr. S. Muthukrishnan
2	Associate Professor	1	1	0	Dr. S. Rajathi Assistant Professor, Shown against the Post
3	Assistant Professor	2	1	1	Dr. A.V. Gensis Inigo Assistant Professor (He is working at Department of VAE) Vacant – 1
Total		4	3	1	
3. Department of Animal Genetics and Breeding					
1	Professor	1	0	1	Vacant – 1
2	Associate Professor	1	1	0	Dr.T.Ravimurugan
3	Assistant Professor	2	1	1	Dr. M. Seevagan Vacant – 1
Total		4	2	2	
4. Department of Veterinary Physiology and Biochemistry					
1	Professor	1	0	1	Vacant -1
2	Associate Professor	2	2	0	1. Dr. K. Loganathasamy 2. Dr. M. Sundara Vinayaki, Assistant Professor, Shown against the Post

3	Assistant Professor	5	2	3	1). Dr. T. Lakshmi Prasanth 2). Dr. G. Rajesh Vacant- 3
Total		8	4	4	
5. Department of Livestock Production Management					
1	Professor	1	1	0	Dr. V. Thanaseelaan
2	Associate Professor	2	1	1	Dr. S. Vasanthakumar, Assistant Professor, Shown against the Post Vacant - 1
3	Assistant Professor	1	1	0	Dr. M. Sathiyabarathi
Total		4	3	1	
6. Department of Veterinary Microbiology					
1	Professor	1	1	0	Dr. S. Malmarugan
2	Associate Professor	1	0	1	Vacant – 1
3	Assistant Professor	2	2	0	Dr. M. Prabhu Dr. N. Sweetline Anne
Total		4	3	1	
7. Department of Veterinary Parasitology					
1	Professor	1	1	0	Dr. T. Anna
2	Associate Professor	1	1	0	Dr. A. Meenakshisundaram Professor (CA) Shown against the Post
3	Assistant Professor	2	1	1	Dr. K. Sumathi Vacant – 1
Total		4	3	1	
8. Department of Veterinary Pathology					
1	Professor	1	1	0	Dr. R. Thangathurai
2	Associate Professor	2	0	2	Vacant – 2
3	Assistant Professor	3	3	0	Dr. K. Gopal, Dr. V. Kumar Dr. T. Mohanapriya
Total		6	4	2	
9. Department of Veterinary Pharmacology and Toxicology					
1	Professor	1	0	1	Vacant – 1
2	Associate Professor	1	1	0	Dr. V. Sureshkumar, Assistant Professor Shown against the Post
3	Assistant Professor	2	2	0	Dr. V. Ramakrishnan Dr. S. Sakthi Karthikeyan
Total		4	3	1	
10. Department of Animal Husbandry & Extension Education					
1	Professor	1	0	1	Vacant - 1
2	Associate Professor	1	1	0	Dr. S. Senthilkumar
3	Assistant Professor	2	2	0	1). Dr. M. Boopathy Raja 2). Dr. R. Sangameswaran
Total		4	3	1	

11. Department of Livestock Products Technology					
1	Professor	1	0	1	Vacant – 1
2	Associate Professor	1	1	0	Dr. M. Anna Anandh
3	Assistant Professor	2	1	1	1). Dr. M. Sutha Vacant - 1
Total		4	2	2	
12. Department of Veterinary Public Health and Epidemiology					
1	Professor	1	1	0	Dr. G. Balakrishnan Professor(CA)
2	Associate Professor	1	0	1	Vacant – 1
3	Assistant Professor	2	2	0	1).Dr. S. Rajagunalan, 2).Dr. A. Sundar
Total		4	3	1	
13. Dept. of Veterinary Obstetrics and Gynecology					
1	Professor	1	0	1	Vacant - 1
2	Associate Professor	2	0	2	Vacant – 2
3	Assistant Professor	3	3	0	1). Dr. M. Murugan 2). Dr. K. Ravikumar 3) Dr. A. Ganesan
Total		6	3	3	
14. Dept. of Veterinary Medicine					
1	Professor	1	0	1	Vacant - 1
2	Associate Professor	2	1	1	Dr. S. Saravanan Vacant – 1
3	Assistant Professor	3	2	1	Dr. R.C. Sundararajan Dr. E. Madhesh Vacant – 1
Total		6	3	3	
15. Dept. of Veterinary Surgery and Radiology					
1	Professor	1	0	1	Vacant – 1.
2	Associate Professor	2	1	1	Dr. S. Kokila Assistant Professor Shown against the Post Vacant – 1
3	Assistant Professor	3	3	0	1). Dr. A.R. Ninu 2). Dr.M. Vijayakumar 3). Dr. N. Krishnaveni
Total		6	4	2	
16. Livestock Farm Complex					
1	Professor	1	1	0	Dr. S.C. Edwin,
2	Associate Professor	1	1	0	Dr. G.M. Sivakumar
3	Assistant Professor	7	5	2	1).Dr. M. Murugan, Professor Shown against the Post 2).Dr. S. Ganesh Kumar 3).Dr. K. Nalini 4).Dr. R. Selvam 5).Dr. P. Kanagaraju Vacant - 2
Total		9	7	2	

17. Veterinary Clinical Complex					
1	Professor	1	0	1	-
2	Associate Professor	1	1	0	Dr. M. Balagangathara thilagar
3	Assistant Professor	4	2	2	1).Dr. Chhavi Gupta 2).Dr. D. Vishnugurubaran Vacant - 2
Total		6	3	3	
Grand Total		87	56	31	

6.4.3. Technical and Supporting Staff

S. No	Name of the Post	Sanctioned Strength	Staff in Position	No. of Vacancy	Name of the Incumbent holding the post
A. Dean's Office					
1	Dean	1	1	0	Dr. A. Palanisammi
2	Administrative Officer	1	1	0	Selvi. S. Santhi
3	Accounts Officer	1	1	0	Tmt. K. Santhi
4	Assistant Accounts Officer	1	0	1	Vacant
5	Superintendent	2	2	0	Selvi.C.Kalyani Th. M. Murthy
6	Farm Manager	3	2	1	Th. R. M. Karthick Working at L.F.C, VCRI,TNI Selvi. S. Sarmila Working at L.F.C, VCRI, TNI Vacant-1
7	Assistant Programmer	1	1	0	Tmt. C. Amutha
8	Assistant	6	3	3	1) Tmt. A. Anandavalli 2) Thiru. K. Augustin 3) Tmt. R. Indira Vacant- 3
9	Junior Assistant/Typist	19	0	19	Vacant – 19
10	Laboratory Technician	16	2	14	Tmt. A. Priyadharshini Technician Grade II Shown against the Post Thiru G. Bala Hariharasudhan Agricultural Assistant Shown against the Post Vacant – 14
11	Driver (transferred alongwith post and budget from PRS)	1	1	0	J. Murugesan, (SG)
12	Attender	1	1	0	Thiru. S. Srimurugan
13	Laboratory Assistant	5	0	5	Vacant – 5
14	Animal Attendant	8	0	8	Vacant – 8
15	Attendant	12	2	10	1.Thiru M. Murugan (Spl.Gr.) 2.Thiru. C. Lenin Murugan, Basic Servant Shown against the Post Vacant – 10
Total		78	17	61	

B. Engineering Section					
1	Assistant Engineer	1	1	0	Thiru. P. Sundaravadivelu
2	Technical Assistant (Electrical)	1	1	0	Th.R. Senthil Thangam
3	Electrician	1	1	0	Thiru. E. Arumugam
4	Plumber	1	1	0	Th. P. Balasubramanian
Total		4	4	0	
C. Library					
1	Asst. Librarian	1	1	0	Dr. S. Kopperundevi
Total		1	1	0	
D. Physical Education					
1	Deputy Director of Physical Education	1	1	0	Dr. Pon. Solai Pandian Assistant Director of Physical Education - Shown against the Post
Total		1	1	0	
E. Livestock Farm Complex					
1	Superintendent	1	1	0	Tmt. K .Amutha
2	Junior Assistant	1	0	1	Vacant -1
3	Typist Grade-I	1	0	1	Vacant – 1
4	Driver	2	2	0	Thiru A. Ravi Thiru. M. Robert Thomas
5	Attender	1	1	0	Th. M. Sivakumar
6	Technician Grade-II	1	1	0	Thiru M. Senthilkumaran Laboratory Assistant Shown against the Post
7	Provincialized Mazdoor	4	0	4	Vacant – 4
Total		11	5	6	
F. Veterinary Clinical Complex					
1	Assistant	1	-	1	
2	Typist	1	-	1	
3	Attendant	2	-	2	
Total		4	-	4	
Grand Total		99	28	71	

6.4.4. Classrooms and Laboratories:

A) Livestock farm complex

Description (class rooms/ mini halls/ etc)	No. available	Area (sq. m)	capacity	Audio-visual aids/ smart boards if any present
Class room	One	140 sq.m	40 students	LCD projector and Black board Audio-visual aids AC hall

B) Veterinary Clinical Complex :

Physical facilities:

S. No.	Units	Space Sq m	Name of the equipments	Utility of the equipment in brief
1	Registration Counter	28	Computer system with printing facilities	Digitalization of registration counter with software facility
			Inverter and Tubular battery	For power back up
			Case sheet holders (5 no)	For maintain the case sheets
			Biometric attendance system	For staff
2	SAC OP Medicine with power back up facility	111.60	Vaccination Cabin	For the Vaccination of the small animals
			Cabins with Examination tables (8 no.) and IV infusion stands	For detailed examination of the animals
			Medicine trolley (3 no.)	For keeping the medicine and general examination equipment
			Storwel plain (1no.) Instrument cabinet (1 no.)	For storing the consumables for the ward use
			Sterilizer	For sterilizing the needles and syringes
			Special Examination unit with facility of oxygen therapy <ul style="list-style-type: none"> • Indirect ophthalmoscope • Portable Slit lamp Microscope • Direct ophthalmoscope • Woods lamp • Microscope • ECG 	For special diagnostic examination of the animals
			Digital weighing machine	To calculate the dose of medicines
3	ICU with power back up facility	28.00	BP Doppler	Monitor BP
			Cabins with Examination tables (2 no.) and IV infusion stands	For detailed examination of the animals
			Instrument trolley (2 no.)	For keeping the medicine and general examination equipment
			Crash cart (1 no.)	For storing the consumables for the ward use
			Storwel plain (1no.)	For storing the consumables for the unit use
			Laryngoscope set	For examination of larynges and fixing of endotracheal tubes
			Otoscope digital	For detailed examination of ear

			Blood Pressure Monitor-Doppler	Blood pressure Monitor
			Centralized oxygen therapy unit	For treating critically ill patients
			Critical care monitor with accessories	For treating and observing the critically ill patients
			Pulse oximetre	For treating and observing the critically ill patients
			Vital sign monitor	For treating and observing the critically ill patients
			Ambu's silicon respirator	For treating and observing the critically ill patients
			Suction	For treating and observing the critically ill patients
			Storwel plain (1no.) Instrument cabinet (1 no.)	For storing the consumables for the ward use
4	SAC OP OG	37.10	Small animal obstetrical instruments	To attend Obstetrical cases in small animals
			Cabins with Examination tables (2 no.) and IV infusion stands	For detailed examination of the animals
			Instrument trolley (2 no.)	For keeping the medicine and general examination equipment
			Storwel plain (1no.)	For storing the consumables for the unit use
			Sterilizer	For sterilizing the needles and syringes
5	SAC OP Surgery with power back up facility	71.16	Cabins with Examination tables (4 no.) and IV infusion stands	For detailed examination of the animals
			Medicine trolley (2 no.)	For keeping the medicine and general examination equipment
			Storwel plain (1no.) Instrument cabinet (1 no.)	For storing the consumables for the ward use
			Sterilizer	For sterilizing the needles and syringes
			Small animal surgical instruments (minor set) (major set)	For attending minor and major surgical cases in OP
			Nail clipping facilities	For nail clipping of dogs
			Oxygen therapy facility	To stabilize the trauma cases
			Digital weighing machine	To calculate the dose of medicines
6	Ultrasonography Unit with power back up facility	25.00	Colour Doppler Ultra sound with external printing facilities	Disease diagnosis
			Echocardiograph	Diagnosis of cardiac diseases
			Cabins with Examination tables (2 no.)	For restraining the animals
			Storwel plain (1no.)	For storing the consumables and probes for the ward use

7	Infectious ward with power back up facility	35.00	Cabins with Examination tables (4 no.) and IV infusion stands	For detailed examination of the animals
			Medicine trolley (1 no.)	For keeping the medicine and general examination equipment
			Storwel plain (1no.)	For storing the consumables for the ward use
			Sterilizer	For sterilizing the needles and syringes
			Digital weighing machine	To calculate the dose of medicines
8	OT with power back up facility	112.00	Small Animal Anaesthetic machine with vaporiser	Inhalant anaesthesia
			Adonis Mobile Surgical C- Arm	Radiography
			OT light (shadow less lamp)	Light source for performing surgery
			Hydraulic table (2 no.)	For operating animals
			Oxygen therapy facility	For quick stabilization of animals
			Stretcher (2 no.)	For transferring the sedated animal to and from OT
			Examination table (1 no.)	For recovery of animal
			Cash cart (1 no.)	For storing the consumables for the ward use
			Medicine trolley (2 no.)	For keeping the medicine and general examination equipment
			Instrument trolley (2 no.)	To keep instruments
			Mayos table (2 no.)	To keep set for during surgery
			Storwel plain (2 no.)	For storing the consumables for the ward use
			Cautery set	To control bleeding during surgery
9	Endoscopy unit with power back up facility	47.50	Cabins with Examination tables (2 no.) and IV infusion stands	For detailed examination of the animals
			Endoscope with Accessories	Diagnosis GI and respiratory tract diseases
			Medicine trolley (1 no.)	For keeping the medicine and general examination equipment
			Storwel plain (1no.)	For storing the consumables for the ward use
			Oxygen therapy facility	For quick stabilization of animals
10	X- ray unit	40.00 + 10.20	X ray machine and CR facility belongs to Dept. of VSR, VCRI, Tirunelveli	Functioning is maintained at VCC, VCRI, Tirunelveli

11	Physiotherapy Unit	40.00	Laser and Infrared Therapy	For treating chronic wound
			Short wave diathermy unit	For treating spinal injury cases
			Ultrasound therapy	For treating muscular and deep pain
			Cabins with Examination tables (2 no.)	For restraint the animals
12	Large animal OP Unit	102.55 + 148.50	Fork Lift	Lifting the downer animal and transport of animal
			Sling for Downer cows	Lifting the downer animal
			Ferroscope	For diagnosis of metallic foreign body in large animal
			Travis (6 no.)	For restraining the animal
			Examination table (8 no.)	For restraining the small ruminants
			Instrument trolley (6 no.)	For keeping the medicines and instruments
			Digital weighing machine	To calculate the dose of medicines
	LAC OP OG		Vaginal Speculum (large) Vaginal Speculum (Small)	For vaginal examination of large animals
			AI guns (3 no.)	For performing AI
			Cryocans (3 no.)	For storing the semen straws
			Obstetrical instruments	For attending obstetrical cases
			Sterilizer	For sterilizing the needles and syringes
			LAC OP S	Large animal surgical set
Sterilizer	For sterilizing the needles and syringes			
Burdizzo's Castrator Baby Burdizzo's Castrator	For castration in large and small ruminants			
LAC OP M	Sterilizer	For sterilizing the needles and syringes		
	Rumen extraction pump with stomach tubes (large and small)	For treating bloat and acidosis cases		
	Mouth gags	For oral examination of animals		
	Milk checker	For diagnosis of mastitis		
	Nasogastric tubes	For treating GI track affections in horses		
	Large animal ECG Machine	For ECG in large animals		
13	Pharmacy	30.65	Cupboards	For storing medicines and consumables
			Storwel plain (1no.)	For storing the anaesthetic for the ward use
			Refrigerator with back up facility	For storing vaccines and maintain the cold chain
			Computer with software	To maintain the stocks digitally

14	Centralized Clinical Laboratory with power back up facility	28.00 + 37.10	Blood analyser	Blood analysis
			Binocular microscope (6 no.) Binocular microscope (5 no.)	For microscopical examination of blood, urine, faecal etc. samples
			Trinocular microscope with endocamera	For microscopical examination of blood, urine, faecal etc. samples and for UG teaching
			Urine analyser with coagulometer	For examination of urine samples
			Blood gas analyser with immunoassay analyser	For the estimation of blood gas concentration (PCO ₂ , PO ₂) For estimation blood hormone levels
			Monopan balance	For measuring the chemicals and reagents
			Centrifuge (2 no.)	For processing of different samples
			Refrigerator (2 no.)	For storing kit and samples For storing reagents
15	Seminar hall	60.00	Podium	For clinical case presentation for the students
			Projector with motorized screen	For clinical case presentation for the students
16	General hospital facility		Generator	For operating the diagnostic tools during power cut
			CCTV surveillance unit	For vigilance purpose
			Fire extinguisher facilities	To control fire accidents
			Reception area with LED TV and DVD facility	To educate the animal owners about hospital activities and rearing
			Large animal and Small animal units cleaning machines	To clean the hospital premises
			Grass cutting machine	To clean the bushes in and around hospital
			RO water purifier machines	For portable water supply to public and students

Individual Departments

i) Department of Animal Nutrition

S. No.	Laboratories	Number of labs (insert many rows needed)	Space (sq. m)	Instruments above two lakhs, List names and numbers (insert as many rows as needed)	Specialty/ Specific purpose of the lab
1	UG	UG Lab	126.02	Kelplus-Automatic Protein Estimator	Estimation of Protein in feeds and feed ingredients
				Soxplus-Automatic Fat Estimator	Estimation of ether extract in feeds and feed ingredients
				Fibra plus-Automatic Fibre Estimator	Estimation of fibre in feeds and feed ingredients
2	PG	PG Lab	82.69	Near Infra-Red Reflectance Spectroscopy (NIRS)	Ingredient Rapid analysis of proximate principles in feeds and feed ingredients

ii) Department of Animal Genetics and Breeding

1	UG	Computer lab	107	-	UG education
		Genetics lab	75	-	UG education

iii) Department of Livestock Production Management

1	UG	Laboratory	112.50	--	Displaying animal handling equipments and livestock charts Conducting practical classes for UG students
		Museum	111.20	--	Displaying livestock housing models and breed charts of different livestock and poultry species
2	PG	-Nil-	--	--	
3	Others, if any	--	--	--	

iv) Department of Livestock Production Technology

1	UG	Dairy Technology Lab - 01	1500	Nil	Teaching, demonstration and production of value added milk products
		Meat Technology Lab	1200	1. Double Beam UV – Vis Spectro Photometer – 01 2. Sausage Maker – 01 3. Bowl Chopper – 01	Teaching, demonstration and production of value added meat products
		Slaughter hall	1200	1. Over Head Rail System with Accessories – 01 Unit	Slaughter and dressing of different food animals and poultry species

v) Department of Veterinary and Animal Husbandry Extension Education

1	UG	i. Audio-visual technology lab.	57.60	Nil	To familiarise the students about AV Aids
		ii. Photography-cum-graphic unit, projection unit etc.	57.60	Nil	To expertise the students in photography and Video graphy
		iii. Group discussion chambers/mini seminar room	57.60	Nil	To conduct mock group discussion during UG Practical Classes
		iv. Museum-cum-livestock advisory unit	57.60	Nil	To mould the students for client dealing

vi) Department of Veterinary Anatomy

1	UG	Osteology and Arthrology	89.25		
		Dissection Hall	115.50		
		Histology and Embryology Laboratory (Functioning under Veterinary Physiology and Biochemistry)	89.25		
		Research Laboratory (Functioning as Histology and Embryology Laboratory)	89.25	Leica Manual Rotary Microtome – 1	Microslide Preparation
		Dissection Specimen Store	37.63		
		Museum	37.20		

vii) Department of Veterinary Gynaecology and Obstetrics

1	UG	Gynaecology lab	89.25 m ²		For UG education and AI training
		Andrology Lab	89.25 m ²		For UG education and AI training
2	PG	PG lab with Seminar hall	89.25 m ²	Stereo Zoom Microscope with accessories- One	For advanced research
3	Others, if any			Portable Ultrasound machine - One	For UG education and Clinical application

viii) Department of Veterinary Medicine

1	UG	Bacteriology & Mycology Lab	903.84 sq.ft.	Deep freezer -40 (Vertical HAIER model DW 40L 508) 1no.	For storing isolates and biologicals
				Vertical Laminar air flow (Klenflow, model 15602-48-30-30)	For bacteriological and mycological culture work
		Virology Lab	301.28 sq.ft.	Vertical Laminar air flow (Klenflow, model 15602-48-30-30)	For virology and cell culture work
				Co2 Incubator	Cell culture work
		Veterinary Immunology Lab	903.84 sq.ft.	Mastercycler – PCR machine	To amplify segments of DNA for the molecular diagnosis of diseases
				Gel Documentation system – Gelstan1312	To visualize the PCR products
		Sterilization, Cleaning & washing and Media preparation	451.92 sq.ft.	Horizontal Cylindrical high pressure sterilizer-NATSTEEL 20HA/E/SD	To sterilize the culture media
2	Others, if any	Veterinary University Disease Diagnostic Laboratory (VUDDL)	1085.68 sq.ft.	ELISA Reader	To read the OD values in ELISA plates for the serological diagnosis of diseases
				Refrigerator Centrifuge : Eppendorf 5804-R	For isolation of DNA and RNA.
				Deep freezer (-86oC) (Vertical HAIER model DW 86L 388A)	For storing isolates and biologicals
				Distilled water plant(Ultrapur water purification system:Direct Q3 Millipore)	For usage of purified water to carry out the laboratory works
				Laminar air flow (Class-II) Bio contaminant work station(Klenzaids), model -Bioklenz1590B-48-24-24)	Sterile environment for cultivation and diagnosis of Microbes
				Autoclave: Horizontal Cylindrical high pressure sterilizer-NATSTEEL 20HA/E/SD	To sterilize the culture media

ix) Department of Veterinary Parasitology

1	UG	Helminthology Lab	903.84 Sq. Ft.	NIKON All in one Microscope (Bright field Microscope with Phase contrast, with Dark field, Ultra Violet an UV assembly) & Projection accessories	For UG teaching and Practical demo, hands on training to students, Farmers training
		Parasite's Museum	903.84 Sq. Ft.		
		Entomology & Protozoology lab - 600 sq.ft	903.81 Sq. Ft.		

x) Department of Veterinary Physiology and Biochemistry

1	UG	Physiology	111.5		UG teaching & Research
		Biochemistry	83.6		UG teaching & Research
		Analytical Biochemistry Lab	83.6	UV - visible – Spectrophotometer – 1 No.	UG teaching & Research

xi) Department of Veterinary Public Health and Epidemiology

1	UG	Milk hygiene Lab	189	Fluorescent microscope	Teaching
		Meat hygiene Lab	189		Teaching
		Epidemiology cum zoonoses Lab	189	ELISA reader	Diagnostic

xii) Department of Veterinary Pathology

1	UG	Histopathology lab	903.84 sq. ft	1. Upright microscope with color camera and accessories -1 No.	To teach the histopathological changes for undergraduate students
		Tissue processing facility	903.84 sq. ft	1. Rotary Microtome with thin sectioning facility- 1 No. 2. Automatic Tissue Processor -1 No. 3. Automatic slide staining machine 1 No.	To process the histopathological slides for teaching, research and extension purposes of post-mortem tissue samples, clinical samples, etc.,
		Clinical Pathology lab	903.84 sq. ft	1. Auto haematology analyser – 1No. 2. Auto biochemistry analyzer 1 No.	To process haematological and serum biochemical samples received from VUDDL, field veterinarians and research persons

		Museum	1201.085 sq. ft	-	For undergraduate studies and extension purposes such as exhibition, other school and college students visit, etc
		Post –mortem room for large animals and poultry with carcass and other waste disposal facilities at an accessible distance.	1201.085 sq. ft	-	To conduct post-mortem examination of bovine, caprine, ovine, avian, laboratory animals and wild animals for teaching, research and extension purposes

xiii) Department of Veterinary Pharmacology and Toxicology

1	UG	i. Experimental Pharmacology Lab.	930 Sq.ft	Spectrophotometer	To conduct the basic pharmacodynamics and pharmacokinetics research
		ii. Pharmacy lab.	930 Sq.ft		to teach and prepare various pharmacy preparations and formulation like ointment, liniment and lotion etc.,
		iii. Toxicology and Chemotherapy Lab.	930 Sq.ft		for identification of toxic plants and quality analysis of toxicants for U.G & P.G Students.

xiv) Department of Veterinary Surgery and Radiology

1	UG	Practical hall for UG	83.61	Boyle's apparatus - One	Small animal operation theatre (55.74 Sq.m)
				Hydraulic operation table for large animal - One	Large animal operation theatre (111.48 sq.m)
				Computerized radiography for large and small animal with accessories - One	
				Simens X-Ray System Multiuse with HELIPHOS 600mA - One	
				Autoclave for large animal operation theatre - One	
				Large animal hoist with trolley - One	

xv) Department of Veterinary Medicine

1	UG	Clinical Medicine -1	83.61	Spectrophotometers (Fully automated clinical chemistry analyzer)	For UG Teaching
		Preventive medicine-1	83.61	Dark field microscope Laminar air flow	For UG Teaching

6.4.5. Conduct of Practical and Hands-on-Training:

STUDENTS GETTING HANDS-ON TRAINING IN LIVESTOCK FARM COMPLEX TO RECORD PHYSIOLOGICAL PARAMETERS



STUDENTS GETTING HANDS-ON TRAINING IN VETERINARY ANATOMY LABORATORY



HANDS ON TRAINING – PERFORMING CESSAREAN SECTION IN A CATTLE



ULTRASONOGRAPHIC EXAMINATION OF COMPANION ANIMAL



**HANDS ON- TRAINING IN DIAGNOSIS OF CARDIAC DISORDER BY
ELECTROCARDIOGRAM**



CARDIAC AUSCULTATION



ABDOMINOCENTESIS IN COMPANION ANIMALS



BLOOD TRANSFUSION IN COMPANION ANIMALS



PREGNANCY DIAGNOSIS BY ULTRASONOGRAPHIC STUDIES IN LARGE ANIMALS



DYSTOCIA IN SMALL RUMINANTS	INTERPRETING DIGITAL X RAY
	
RADIOLOGICAL DIAGNOSIS IN COMPANION ANIMALS	
	

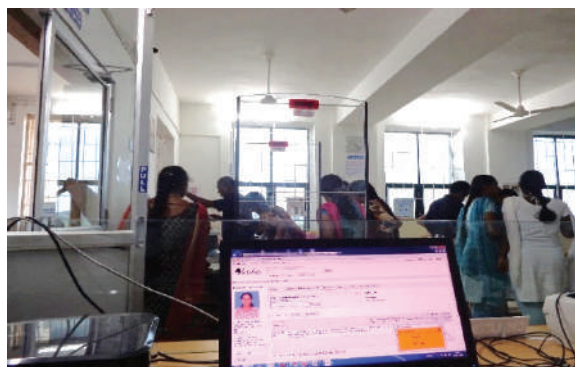
EXPOSURE OF STUDENTS TO LIVESTOCK SHANDY.



LIVESTOCK FARM COMPLEX



DIGITAL LIBRARY – BOOKS AND PERIODICAL SECTION



SMART CLASSROOM FOR UNDERGRADUATE STUDENTS



6.4.6. Supervision of students in PG / PhD programmes:

Every student admitted to the post-graduate programme of the college is being mentored by the Head of Department first to induct to the department activities for a month and the courses relevant and important to the students are selected after having a series of discussion with faculties of the department and interest of the students taking into consideration. Subsequently, the plan of course work in the core subject and minor subjects are decided considering the area of research which the student is going to work. Having ascertained the potential of the student and satisfying the department long term objectives on the research front, students advisory committee members are selected best among the list from own and other relevant departments. Adequate care is taken before selecting the faculty as member of advisory committee based on his or her experience on the proposed research topic and possible support in terms of equipment and laboratory support.

Following the guidelines of TANUVAS PG Regulations and ICAR PG Regulations 2008, every student is given with Chairman, one member from the department and other member from minor / support department for M.V.Sc. program constituting three faculty members for each student. Similarly, experienced faculty of the department as Chairman, one senior faculty as department Members and two other members from other departments. Semester wise plan of action will be prepared, mid-term evaluation by the members, monthly evaluation by the chairman is regularly carried out. Students maintain observation book / log book / day book which would ascertain their day-to-day research activity. Evaluation and assessment of the research work is being monitored by the Advisory Committee as per the norms of the university.

Note:

The first batch of M.V.Sc. is just started (2021-22) and hence, accreditation for M.V.Sc. program will be sought after passing out of first batch students.

6.4.7. Feedback of stakeholders (Students, parents, industries, employers, farmers etc.):

All the UG students were trained on Soft skills and communications for a period of three days on The programme was an eye opener for the students with respect to overall personality development comprised of setting SMART goals, Time Management, Effective Listening and Communication, Steps to improve presentation skills, Problem solving and Team building. The students were encouraged to deliver a mock presentation which was recorded and played back for understanding the do's and don'ts during presentation. The programme was conducted by HR trainer approved by the ICAR, New Delhi. To improve language skill of first year students in English, skill training with exercises (in spoken as well as written) and evaluation were conducted by the Faculty of English. Above programmes boosted the confidence level of graduates to face real world challenges when they start career in private or public sector.

After completion of each semester / professional year, the students are encouraged to offer their feedback regarding the course teachers and by the controlling Officer in the form of a questionnaire developed by the University as given in Annexure 1 and Annexure 2.

6.4.8. Student intake and attrition in the programme for last five years:

Year	Programme of study	Student intake	Student attrition	Percentage of attrition
2014-15	UG	40	18	45
2015-16	UG	61	5	8.20
2016-17	UG	59	2	3.39
2017-18	UG	79	-	Nil
2018-19	UG	79	-	Nil
2019-20	UG	78	-	Nil
	PG	1	1	100.0
2020-21	UG	81	3	3.70
	PG	-	-	-
2021-22	UG	101	1	0.99
	PG	3	-	Nil

6.4.9. ICT Application in curricula delivery

All the departments are conducting theory and practical class either using ICT tools or direct streaming of web contents since classroom and laboratories are digitally connected to university server *via* LAN.

Major digital support available for faculty and student's self-directed learning

1. TANUVAS e-learning contents in both online and offline mode.
2. Simulation models using licensed software for teaching and demonstration of basic concepts and applied clinical practices.
3. Smart class rooms with interactive boards connected to internet.
4. Smart system enabled digital library software and lecture notes.
5. Evaluation and continuous up-dation of question bank in digital format and answer pickup mode.
6. Video format of the procedures and recorded hands-on training modules developed over a period of time.

The degree curricula specified in the MSVE 2008 and MVSE 2016 and approved by the university is followed without any deviation.

6.4.10. The information pertaining to 6.4.1 to 6.4.9 shall be provided for each one of UG, PG and PhD Degree Programmes, separately, and to be presented College-wise. - NA

6.4.11. Since the accreditation of Programmes is related to the All India Admission from ICAR and also having weightage for College accreditation, therefore the data presented in the section 6.4 is liable to the verification at any stage.

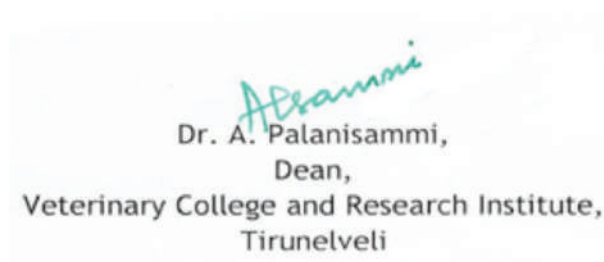
6.4.12. Certificate (Applicable when SSR is submitted for Programme)

I **Dr. A. Palanisammi**, Dean Veterinary College and Research Institute, Tirunelveli hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Name of the Degree Programmes for which ICAR accreditation is sought :

B.V.Sc & A.H.

S.No.	Name of the Degree Programme
1.	B.V.Sc. & A.H.



Dr. A. Palanisammi,
Dean,
Veterinary College and Research Institute,
Tirunelveli

Signature of Dean of the College with Date & Seal

Annexure

Annexure 1

EVALUATION OF TEACHERS BY STUDENTS

(done after completion of every course)

Name of the Teacher :

Designation :

Department :

Course No., Title & Credit hours :

Start date of the semester :

Closure date of the semester :

(tick in the appropriate column)

S.No.	PARAMETERS	GRADING			
		Excellent (A)	Good (B)	Fair (C)	Poor (D)
1	Delivering subject (objective & coverage)				
2	Use of audio - visual aids				
3	Supply of course materials				
4	Clarity of expression				
5	Interaction with students in the class room				
6	Style of teaching				
7	Summarisation of previous class lectures				
8	Encouraging class room discussion				
9	Accepting suggestions				
10	Impartial student evaluation				
11	Punctuality				
12	Taking care of low performing students				
13	Cordiality with students				
14	Motivation of students				
15	Involvement in student activities				

Total score = {No. of ticks in col. (A) x 3} + {No. of ticks in col. (B) x 2} + {No. of ticks in col. (C) x 1} + {No. of ticks in col. (D) x 0}

Mean score = Total score / 15

Name of the student and signature (optional)

Annexure 2

EVALUATION BY CONTROLLING OFFICER (after each course or every year)

Name of the Teacher :

Designation and address :

(tick in the appropriate column)

S.No.	PARAMETERS	GRADING			
		Excellent (A)	Good (B)	Fair (C)	Poor (D)
1	Punctuality				
2	Communication skills				
3	Organising ability				
4	Counselling skills				
5	Handling student's problem				
6	Inter-personal relations and team work				
7	Involvement in student activities				
8	Participation in university/ institutional development				
9	Execution of special assignments				
10	Commitment and dedication to job assigned				

Total score = {No. of ticks in col. (A) x 3} + {No. of ticks in col. (B) x 2} + {No. of ticks in col. (C) x 1} + {No. of ticks in col. (D) x 0}

Mean score = Total score / 10

Signature of the Controlling Officer

MEAN SCORES AND RANKING OF TEACHERS BASED ON EVALUATION BY STUDENTS AND CONTROLLING OFFICER

Average mean score obtained of student evaluation* (a)	Average mean score of two annual assessments by controlling officer (b)	Total annual mean score** (c) = (a+b)/2

* if no. of courses is more than one in a year, average of mean scores of different scores is to be obtained and indicated.

** score of 2.6 and above - Outstanding teacher; 2.1 to 2.5 - Good teacher; 1.6 to 2.0 - Average teacher; 1.5 and below - Below average teacher