



6.4. SELF STUDY REPORT on **VETERINARY COLLEGE AND RESEARCH INSTITUTE ORATHANADU**



TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY **CHENNAI – 600 051**



ICAR ACCREDITATION 2020

6.4 SELF STUDY REPORT

VETERINARY COLLEGE AND RESEARCH INSTITUTE ORATHANADU – 614 625 THANJAVUR DISTRICT, TAMIL NADU

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

6.4. Self Study Report for the Programme : B.V.Sc. & A.H.

6.4.1. Brief History of the Degree Programme

The college was started with the view to give a new impetus to livestock sector and to improve the livelihood of farmers belonging to Cauvery delta region of Tamil Nadu. Honourable Chief Minister of Tamil Nadu proposed the establishment of new Veterinary College and Research Institute at Orathanadu, Thanjavur district under Tamil Nadu Veterinary and Animal Sciences University, Chennai. This college is located at Orathanadu, 25 km from Thanjavur on the way to Pattukottai. The total area of the campus is 206.96 acres, which constitutes *keezhathottam* (Eastern garden) and *melathottam* (Western garden).

The Government of Tamil Nadu issued orders for the establishment of Veterinary College and Research Institute at Orathanadu, Thanjavur as per the G.O. Ms. No. 134, Animal Husbandry, Dairying and Fisheries (AH-6) Department, dated: 09.11.2011 and subsequently on 09.10.2012. The college was inaugurated by the Honourable Chief Minister of Tamil Nadu Selvi. Dr.J.Jayalalithaa. A comprehensive government order sanctioning man power, civil works and equipment for the year 2012-13, 2013-14 and 2014-15 had been issued [G.O.(Ms.) No.223, Dated: 20.12.2012] for giving full functional status to the college as per Veterinary Council of India (VCI) norms.

The B.V.Sc. & A.H. degree programme was initially started with seven departments *viz.*, Veterinary Anatomy, Veterinary Physiology and Biochemistry, Animal Genetics and Breeding, Animal Nutrition, Livestock Production Management, Instructional Livestock Farm Complex and Teaching Veterinary Clinical Complex and had been established fully with required manpower, equipment and floor space as per VCI norms. A total of 40 students per batch had been admitted initially and the classes were handled from 20.09.2012. Followed by the departments *viz.*, Veterinary Microbiology, Veterinary Parasitology and Veterinary Pathology were started for the second year courses. The third year courses *viz.*, Veterinary Pharmacology and Toxicology, Veterinary Public Health and Epidemiology, Livestock Products Technology and Veterinary and Animal Husbandry Extension Education were established during the year 2013-14. Finally, clinical departments such as Veterinary Medicine, Veterinary Surgery and Radiology and Veterinary Gynaecology and Obstetrics were established during the year 2013-15. As on date, 17 departments have been established in this college as per VCI norms.

The student intake was increased to 60 students per batch from the academic year 2015-16. Then it was increased to 80 students per batch and now it is raised to 100 students per batch from the academic year 2021-22 with the approval of VCI. Postgraduate programmes were started from the year 2019 onwards in all the departments with the approval of Tamil Nadu Veterinary and Animal Sciences University. The college caters all animal husbandry related activities to the farming community in and around the Cauvery Delta regions of Tamil Nadu with following objectives.

- 1. To undertake UG and PG education in the field of veterinary and animal sciences.
- 2. To develop new technologies and disseminate the same to the needy sectors.
- **3.** To disseminate research findings to the farmers, entrepreneurs and women self-help groups by conducting training programmes/extension activities.
- 4. To provide consultancy in the manufacturing, packaging and quality control of livestock products.
- 5. To conduct research on need based field and industry oriented problems.

6.4.2. Faculty Strength

Sl.No.	Faculty (Teaching)	Sanctioned strength	In-place	Vacant	Recommended by VCI
1	Dean	1	1	-	1
2	Professor	17	15	2	17
3	Associate Professor	23	17	6	16
4	Assistant Professor	44	39	5	41
5	Assistant Librarian	1	1	-	1
6	Assistant Director of Physical Education	1	1	-	1
	Total	87	74	13	77

6.4.3. Technical and Supporting staff

Sl.No.	Technical and supporting staff	Sanctioned strength	In-place	Vacant
1	Administrative Officer	1	1	0
2	Assistant Accounts Officer	1	1	0
3	Assistant Engineer (Electrical)	1	1	0
4	Assistant Engineer (Civil)	1	1	0
5	Assistant Public Relation Officer	1	1	0
6	Technical Assistant (Civil)	1	0	1
7	Superintendent	3	3	0
8	Farm Manager	3	1	2
9	Assistant	8	1	7
10	Electrician	1	1	0
11	Junior Assistant	14	1	13
12	Typist	15	0	15
13	Lab.Technician	17	1	16
14	Lab.Assistant	7	1	6
15	Driver	4	1	3
16	Animal Attendant/Attendant	23	7	16
	Total	101	22	79*

*Daily wages are engaged

6.4.4. Classrooms and Laboratories

Classrooms : Theory classes are conducted in the common lecture hall provided with audio visual aid facility for the undergraduate students. The total students of the batch are divided into two batches for practical classes, and practical classes are taken as per the respective course credit hours in the concerned laboratories of the departments.

Classrooms, laboratories, farm facilities, workshop and other instructional units	Number available	Justify if it is sufficient to meet the course curricula requirement		
Department of Veterinary Anatomy				
Classroom	1	Classroom (common lecture hall) for theory classes maintained by the Department of Veterinary Anatomy is equipped with audio-visual aids for effective teaching and learning by the undergraduate students and it meets the course curriculum requirement.		
Functional laboratories	1			
Osteology and arthrology laboratory	1	Laboratories provide the practical knowledge to the undergraduate students about the anatomical structure of		
Dissection hall with attached embalming room	1	different livestock species.		
Histology and embryology laboratory	1			
Major equipment				
Microtome	1	The equipment are used for the preparation of histological		
Hot air oven	1	samples to teach undergraduate students about the		
Autoclave	1	anatomical structure of various organs of livestock species.		
Instructional unit				
Museum	1	1 It explains about the different livestock species for it preservation and helps the undergraduate students to kno about the chronological growth period of livestock in it different life period.		
Department of Veterinary Physiology and Biochemistry				
Classroom	1	Common Classroom available is equipped with audio- visual aids for effective teaching and learning by the undergraduate students and it meets the course curriculum requirement.		
Functional laboratories				
Analytic equipment maintenance lab	1	The three laboratories have major basic laboratory equipment required for conducting routine UG practical		
Biochemistry lab	1	classes and it ensures sufficient practical exposure		
Physiology lab	1	biochemical and analytical parameters.		
Major equipment				
Binocular research microscope	5	The equipment help the undergraduate students for		
Binocular LED microscope	15	estimating the biochemical and physiological parameters		
Haematocrit centrifuge	1	abnormality if any		
Table top centrifuge	2			
Compact laboratory centrifuge	1			
Analytical balance	1			
Top loading balance	1	_		
pH meter	1			
Hot air oven	1			
Incubator with digital display	1			
Autoclave	1			

Electrocardiography	1	
Laminar air flow	1	
Visible spectrophotometer	1	
Digital flame photometer	1	
PCR machine	1	
Biospectrometer	1	
Electrophoresis unit	1 set	
Monocular microscope	5	
Trinocular LED projection	1	
microscope		
Colorimeter	1	
Vortex mixer	1	
Department of Livestock Produ	ction Managen	nent
Classroom	1	Common Classrooms are available to conduct theory classes for the undergraduate degree programme.
 Functional laboratories Undergraduate student laboratory cum museum 	2	Breed charts and animal house models are displayed in the museum hall for effective understanding about various livestock breeds and farm layouts.
• Judging pavilion-cum handling room in LFC	1	The room is sufficient for the undergraduate students for handling and restraining of different livestock species.
Major equipment		
Burdizzo castrator	1	All the major equipment help the students to know about
Drenching equipment	1	different farm operations such as brooding, disinfection and
Milking machine	1	practices
Trocar and canula	1	practices.
Brooder guard	1	
Flame gun	1	
Weighing balance	1	
Wet and dry bulb thermometer	1	
Farm facilities		Farm facilities available in the LFC with different livestock units provide exposure to various livestock rearing and its routine activities. Adequate facilities are available to meet out the course curriculum and more over students are regularly taken to different farm units to get enough exposure about the routine activities of the farm animal and its operations.
Department of Veterinary Micr	obiology	
Classroom	1	Common Classrooms are available to conduct theory classes for undergraduate degree programme.
Functional laboratories		
Bacteriology laboratory	1	Viral and bacterial cultures are carried out and demonstrated
Virology laboratory	1	during practical classes for undergraduate students.
Immunology laboratory	1	
Major equipment		

Hot air oven	1	Equipment ava	ilable are sufficient to meet out the course	
Incubator	1	curriculum requirement since the laboratory equipmen		
General purpose centrifuge	1	maintained in the department helps the students to kno		
Serological water bath	1	- about the microbiological culture and sample analysis for identification of causative organism of various diseases		
Colony counter	1	livestock specie	equisitive organism of various diseases in	
Membrane filter assembly	1			
Research centrifuge	1			
Glass distillation unit	1			
Autoclave vertical	1			
Chemical balance	1			
Refrigerator				
Water purifier	1			
Incubator	1			
Binocular student microscope	18			
ELISA reader & washer	1			
Laminar air flow	1			
Deep freezer (-40°C)	1			
CO ₂ incubator	1			
LCD projector	1			
Deep Freezer (-86°C)	1			
Thermocycler PCR machine - Gradient type	1			
Class II - Type A2 biosafety cabinet	1			
Exhaust system for class II - Type A2 biosafety cabinet	1	-		
Binocular research microscope	1			
BOD incubator	1			
Bench top pH meter	1			
Instructional units				
Sterilisation cubicle	1	Used for sterilis laboratory worl	sation of media for routine culture and other ks.	
Department of Veterinary Pathole	ogy			
Classroom		1	Classroom (common lecture hall) for theory classes maintained by the Department of Veterinary Pathology is equipped with audio-visual aids for effective teaching and learning by the undergraduate students and it meets the course curriculum requirement.	
Functional laboratories		I		
Postmortem laboratory		1	Equipment are available for collection,	
Photomicrography lab		1	preservation and post-mortem analysis of	
Histotechnology		1	various livestock species to confirm the	
Histopathology		1	post-mortem cases	
Clinical pathology		1	Post mortem cuscs.	
Museum		1		

Major equipment				
Rotary manual microtome		1	Equipment available are sufficient to	
Microscope Trinocular model E-200 LED illuminator with accessories		1	conduct the post-mortem examination for the undergraduate teaching.	
PC based U-V visible spectrophotometer including operating software, data storage system and result sheet printer		1		
Autopsy oscillating saw		1		
Department of Animal Genetics a	nd Breeding			
Classroom	1	Common Clas classes for unc	ssrooms are available to conduct theory lergraduate degree programme.	
Functional laboratories				
Genetics laboratory	1	Computer and	d research laboratories are equipped with	
Computer laboratory	1	sufficient nun	aber of computers with internet facilities	
Research laboratory	1 for statistical analysis during practical classes. Diffe breed charts are displayed in the UG laboratories providing information about various breeds and it help the students to understand the importance of b conservation.		analysis during plactical classes. Different are displayed in the UG laboratories for primation about various breeds and it also ents to understand the importance of breed	
Major equipment				
Microscope	1	Laboratory equ	uipment aids the exploration of various genes	
Personal computer	onal computer 1		at classical and molecular level. Hands on training are	
Incubator with digital display	1	work during th	ne practical classes.	
Refrigerated centrifuge	1			
Deep freezer	1			
Laminar air flow	1			
Digital weighing balance	1			
Mini PCR work station	1			
Laminated charts	100	Breeds of va displayed for p	arious livestock and poultry species are proper identification of breeds.	
Department of Animal Nutrition				
Classroom		1	Common Classrooms are available to conduct the theory classes for the undergraduate degree programme.	
Functional laboratories				
Feed and fodder analysis lab		1	Laboratories are equipped with feed	
Energy metabolism lab		1	analysis instruments. Hands on experience	
Complete feed block unit		1	analysis.	
Mineral mixture preparation unit		1		
Feed processing and mixing plant		1		
Major equipment				
Kjeldhals digestion system		1	Sufficient equipment are available for the	
Desiccators		1	analysis of feed samples in the practical classes for estimation of various feed	
Kjeldhals distillation system		1	ingredients.	
Muffle furnace		1		
Soxhlet apparatus set		1		

Department of Veterinary Pharmacology and Toxicology				
Classroom	1	Classroom (common lecture hall) for theory classes maintained by the Department of Veterinary Pharmacology and Toxicology is equipped with audio-visual aids for effective teaching and learning of the undergraduate students and it meets the course curriculum requirement.		
Functional laboratories				
Experimental Pharmacology lab	1	Laboratories are sufficient to meet out the		
Pharmacology and Toxicology Lab	1	course curriculum and it provides practical knowledge about pharmacodynamics and		
Research lab	1	students		
Small animal room	1	students.		
Herbal garden	10 acres			
Major equipment				
a. Basic laboratory equipment				
Isolated tissue bath with accessories	15	Laboratory equipment help the students about pharmacological preparation of		
Observation cages for rats and mice	25	various drugs during practical classes.		
Small animal weighing balance	5			
Monopan electronic balance	2			
Binocular microscopes	1			
Spectrophotometer	1			
Hot plate analgesiometer	1			
Rotarod or treadmill for mice	1			
b. Chromatography equipment				
High performance thin layer chromatography	1	Laboratory equipment help the students about pharmacological preparation of various drugs during practical classes.		
High performance liquid chromatography	1			
Refrigerated centrifuge	1			
CO ₂ incubator	1			
Rotary evaporator				
Biological safety cabinet (Class II)	1			
Ultra low deep freezer (-40°C)	1			
Soxhletapparatus set	1			
Real-Time PCR	1			
Freeze dryer	1			
Micro volume Spectrophotometer	1			
Chemiluminescence imaging system	1			
Inverted phase contrast microscopy with fluorescence detection	1			

Supercritical fluid extraction	1	
system		
Hinged double door sterilizer	1	
Water purification system	1	
c. Tablet preparation equipment		
Tablet pressing machine	1	Laboratory equipment help the students about pharmacological preparation of
Sifter	1	various drugs during practical classes.
Drier with trays	1	
Multi mill unit	1	
Mass blender	1	
Tablet coating machine	1	
Micro pulverizer	1	
Ointment plant	1	
Ointment tube filling sealing and crimping machine	1	
Granulator and accessories	1	
Colloidal mill	1	
Automatic four head liquid filling machine	1	
Automatic four head capping machine	1	
Automatic labeling machine (adhesive)	1	
Movable stirrer with 50 L container	1	
Rotary bottle washing machine	1	
Buffer tank 150 Litre capacity	1	
Buffer tank with motorized stirrer- 500 Litres	1	
Filter press	1	
Turn table for labeling machine	1	
Department of Veterinary Public	Health and Epidemiology	
Classroom	1	Common classrooms are available to conduct theory classes for undergraduate degree programme.
Functional laboratories		
Milk hygiene laboratory	1	Laboratories provide knowledge based
Meat hygiene laboratory	1	hands on experience to the undergraduate
Zoonoses laboratory	1	students in zoonoses related public health issues and analysis of hygiene.
Major equipment		
Electronic balance	2	All the equipment helps to provide hands on experience to the undergraduate students about milk and meat hygiene related curriculum.
Deep freezer	2	

Hot air oven	2	
UV vis spectrophotometer	1	
High speed centrifuge	1	
Cooling centrifuge	1	
Autoclave vertical – SS 304 - 650	1	
mm X 450 mm		
Vertical autoclave – SS 304 -250 mm X 450 mm	1	
Laminar flow vertical	1	
Horizontal laminar flow	1	
BOD Incubator	2	
Bacteriological Incubator	3	
Binocular microscope	20	
Trinocular fluorescent microscope	1	
Distillation unit	1	
Electrophoretic apparatus with power pack	1	
Water analysis system with accessories	1	
Department of Veterinary Parasit	ology	
Classroom	1	Common Classrooms are available to conduct theory classes for undergraduate degree programme.
Functional laboratories		
Helminthology lab	1	a. Facilities are available to carry out the routine practical for undergraduate
Entomology	1	students in veterinary helminthology
Protozoology lab	1	examination.Veterinary helminthology laboratory has ICT facility for conducting practical classes for UG students.Four numbers of parasite museums with variety of parasite collections are being exhibited in the undergraduate laboratory.
Major equipment		
Hot air oven	1	Equipment available is sufficient for the
Light microscope	10	undergraduate students to analyse the
Dissection microscope	10	the various parasites in different livestock
Centrifuge	1	species.
Biological incubator	1	
Department of Livestock Product	s Technology	
Classroom	1	Common Classrooms are available to conduct theory classes for undergraduate degree programme.

Functional laboratories		
Meat processing and examination	1	Laboratories aid in processing of meat
lab		and milk technology oriented hands on
Dairy technology lab	1	practical guidance and entrepreneurship
Cold storage, product store,	1	experience during the learning period
slaughtering unit with carcass		
utilization and wastemanagement		
unit and poultry slaughter unit for		
So to 100 blids		
Mast minaing machina	1	Available againment is sufficient to provide
Deep freezer verticel	1	hands on experience to the undergraduate
Deep neezer - vertical	1	students on various livestock products
Meat bone cutting band saw	1	preparation.Value added milk and meat
Bowl chopper	<u> </u>	products preparation during the practical
Sausage stuffer	1	hours motivates the students to grow as an
Captive bolt stunner	1	entrepreneur.
Pig restraining unit	1	
Vacuum tumbler	1	
Walk-in cold room	1	
Dairy plant machineries	1	
Smoking unit	1	
Department of Veterinary and An	imal Husbandry Extension	Education
Classroom	1	Common Classrooms are available to conduct the theory classes for undergraduate degree programme.
Functional laboratories		
Audio-visual technology laboratory	1	Audio visual aids and livestock advisory unit helps the students to know about
Mini seminar room	1	the extension related activities as per the
Photography-cum-graphic projection unit	1	course curriculum.
Museum-cum-livestock advisory	1	-
Department of Veterinary Surger	v and Radiology	
· · · · · · · · · · · · · · · · · · ·		
Classroom	1	Common classrooms are available
		to conduct theory classes for undergraduatedegree programme.
Functional laboratories		
UG practical hall	2	Sufficient space and specimens are available for conducting UG practical.

Small animal operation theatre		1	Equipped with gaseous anaesthetic machine, vital sign monitor, centralized oxygen unit, ophthalmology unit and recovery unit.
Large animal operation theatre		1	Large animal anaesthetic machine, vital sign monitor and centralized oxygen unit are available for bovine and equine surgery.
Radiology unit		1	Small and large animal X-ray machine with computerized radiography systems are available with C-arm facilities for minimal invasive orthopaedic surgery.
Major equipment			
X-ray machine and X-ray film viewers		2	Undergraduate students are getting opportunities for handling various
Orthopaedic instruments	1	set	diagnostic and surgical equipment during
Endotracheal tubes for small and large animals		2	operations.
Department of Veterinary Med	icine		
Classroom	1	Common Clas classes for unc	ssrooms are available to conduct theory dergraduate degree programme.
Functional laboratories			
Disease investigation laboratory	1	All the labora and experienc	tory facilities provide practical knowledge e to the undergraduate students in the field
Instrumentation laboratory	1	of Veterinary Medicine to aid for the differential diagnosis of various livestock diseases.	
Clinical medicine laboratory	1		
Major equipment			
Spectrophotometer	1	Laboratory e	quipment helps to analyse the various
Electrolyte analyzer	1	biochemical p	arameters for the clinical samples collected
Semi-auto analyzer	1		a nours by the undergraduate students.
All in one microscope	1	_	
Research microscope	1	_	
Binocular microscope	20	_	
Laminar air flow unit	1	_	
Incubator	3	_	
Hot air oven	2		
BOD incubator	1	_	
Distillation unit	2	_	
pH meter	1	_	
Centrifuge	2	_	
Microhaematocrit centrifuge	1		
Metal detector	1		
Deep freezer	1		

Department of Veterinary Gynaed	Department of Veterinary Gynaecology and Obstetrics			
Classroom	1	Common Classrooms are available		
		to conduct the theory classes for		
		undergraduate degree programme.		
Functional laboratories				
Clinicallaboratory	1	The existing clinical facilities is sufficient		
Large animal artificial	1	to meet the undergraduation education as		
insemination and gynaecology		prescribed by the Veterinary Council of		
unit		India.		
Large animal obstetrics unit	1			
Large animal operation theatre	1			
Small animal gynaecology unit	1			
Small animal obstetrical operation	1			
theatre				
Infertility diagnostic lab	1			
Speciality unit	1			
Research laboratory	1			
Museum-cum-phantom hall and	1			
palpation room				
Semen/andrology lab	1			
ART lab (Assisted reproductive	1			
technology lab)				
Major equipment				
Autoclave	1	Equipment available in the lab help the		
Binocular microscopes	20	undergraduate students to have hands on		
Binocular research microscope	2	experience in the field of Gynaecology and		
Colour dopplerultra sonogram	1	Obstetrics to aid in artificial insemination.		
Hind quarter elevator	1			
Incubator	1			
Monopanelectronic weighing	1			
balance				
Stereo zoom microscope	1			
Trinocularmicroscope	1			
Water bath	1			
Water suction pump	2			

Veterinary Clinical Complex (VCC)

Teaching Veterinary Clinical Complex is functioning with the following objectives

- ✤ To render clinical services to the public.
- * To provide clinical training to the undergraduate, post graduate and internship students.
- To provide research facilities to the staff and students.
- To provide ambulatory clinical services to the public.
- To provide farm and pet animal consultancy to the public.
- To organize need based training / awareness programmes for the benefit of the veterinary students and veterinary practitioners.
- To impart training to overseas students for enhancing their clinical skills.

Hospital Timings

Working days (Monday to Friday)	08.00 AM - 1.00 PM
Saturday, Sunday and All Government Holidays	08.00 AM - 11.30 AM

Units Functioning

- 1. Outpatient Unit: Veterinary Clinical Complex is providing clinical services covering medical, surgical and Gynecological and obstetrical cases for the farmers of delta region covering Thanjavur, Thiruvarur, Nagapattinam, Pudukkottai and Tiruchirappalli throughout the year.
- 2. In-Patient Unit: Post-operative care and intensive care for critically ill patients are also provided in the in-patient facilities available in the premises.
- **3. Ambulatory Unit**: VCC extends ambulatory services for the neighboring village Orantharayankudikadu from Monday to Friday (8.00 AM– 10.00 AM) throughout the year.
- 4. Special Diagnostic: Imaging unit with advanced diagnostic imaging facilities is being developed in the VCC unit *viz.*, computerized radiographic system, portable colour doppler ultrasound, echocardiography, C-arm and video endoscopy.
- **5. Operation Theatre:** Completely equipped Operation theatre for small and large animals, viz.,gaseous anaesthetic machine for small animals, orthopedic and ophthalmic equipment.
- 6. Veterinary Diagnostic Lab: Clinical lab with the facilities to handle clinical samples and to carry out basic diagnostic works is established in the unit. The lab is specially equipped with automated biochemical analyzer and automated hematology analyzer.

- 7. Pharmacy: Pharmaceutical drugs, hospital consumables and vaccines are being handled by pharmacy.
- 8. Immunization Unit: It provides vaccination for pet animals and large animals.
- **9.** Small animal Critical Care Unit is equipped with vital sign monitor, doppler BP and oxygen supply for the critically ill patient.
- **10. Dermatology unit** is a separate facility available to diagnose and treat various dermatological cases of pet and large animals.

Facilities / major equipment available

- Echocardiography
- Colour doppler ultrasound scanner
- ✤ X-ray machine with CR imaging facilities
- ✤ C-ARM
- Video endoscope
- ✤ Electrocardiography
- Boyles apparatus with precision vapourizers and accessories
- ✤ Orthopedic operation theatre
- ✤ Ophthalmic operating microscope
- Slit-lamp biomicroscope
- Physiotherapy and rehabilitation unit
- Clinical lab facilities Biochemical auto analyzer and haematology analyzer
- Pharmacy
- Downer cow sling unit with accessories
- ✤ Animal fork lift to carry the recumbent animals
- Inpatient for large animals

Livestock Farm Complex

Animal Number available				Justify if it is sufficient to
units/ Fodder land	Stock	Infrastructure	Livestock and poultry/ major equipment available	meet the course curricula requirement
Practical lab	1	1300 Sq.ft.	Audio visual aids with LCD facility.	Sufficient for giving instructions on farm training activities
Dairy unit (Cow unit)	Crossbred Jersey • Adult -85 • Young- 22	Cow shed- 7200 Sq.ft Calf shed-1500 Sq.ft Milking parlour- 1125 Sq.ft	Herringbone milking parlour, automatic drinker, chaff cutter, dairy ventilation fan, high pressure water jet cleaning system, cow matt, sprinkler loose housing system and total mixed ration machine.	The different units of LFC give sufficient hands on experience for the students during practical classes on various aspects of livestock production and management of different species available in the institute.
Buffalo unit	Murrah • Adult -32 • Young- 05	9,600 Sq.ft	Head to head housing system, sprinkler and wallowing pond.	Students are routinely taken to different units available in the farm during livestock farm practices course.
Sheep unit	Pattanam • Adult – 30 • Young - 28	1,750 Sq.ft	Housing stalls and management tools for sheep and goat.	
Goat unit	Thanjavur Native Goat • Adult – 29 • Young - 31	1,750 Sq.ft	-	
Piggery farm	Large white Yorkshire • Adult – 19 • Young - 47	3,000 Sq.ft	 Well equipped modern housing system for swine with automatic feeder, nipple drinker, slatted plastic floor and separate sewage collection pit for both solid and liquid waste. 	
Poultry farm	 a. Chicks and grower- 650 b. Adult- 400 c. Japanese quail Adult -650 d. Guinea fowl- 10 e. Duck adult-11 f. Turkey adult -23 g. Emu adult -2 h. Ostrich adult-1 	4,100 Sq.ft Self study report - 6.	Chicken, Japanese quails, turkey, duck, guinea fowls,emu and ostrich are available.	21

Poultry hatchery	One unit	5,000 eggs setter and 5,000 eggs hatcher	Incubator and hatchery facilities are available.	
Horse	One unit	300 Sq.ft	Sufficient equipment for handling and restraining of horses are available.	
Fodder production unit	Two units	23.3 acres under rain gun irrigation and five acres under rainfed irrigation.	Fodder production unit, mechanical harvester, power weeder, micro irrigation system is available.	
Fish ponds	One unit	26,000 Sq.ft.	Integrated farming system model consisting of fish,duck and buffalo is in operation.	

Library

Library services and facilities	Justify if it is sufficient to meet the course of	curricula requirement	
Library space	The library is functioning in the vast space of 8,02 capacity for students is 126.	37.30 Sq.ft area. The seating	
Reprography facility	Photocopying, printing (colour and black & white provided in the library. Two photocopiers are availand nominal charges for students and staff.	e) and scanning services are able for taking photocopy at	
E- Resources centre	E-Learning resources are being provided to B.V.Sc.&A.H. students through the e-Resources centre of the library. Broadband facility is provided to the staff and students of this college at free of cost with 12 computer terminals. Consortium for e-Resources in Agriculture (CeRA): It is an online journal consortium funded under NAIP of ICAR. CeRA provides access to more than 2800 online journals and 401 E-books covering various disciplines of agricultural sciences including veterinary and animal sciences		
Collection of books,	Library holdings		
journals, back volumes, etc.	Collection	Numbers	
	Books	2738 volumes	
	Competitive exam books	697	
	Complimentary copies of books	267	
	Indian journals subscribed	18	
	Magazines (Tamil&English) subscribed	18	
	Back volumes of magazines	589	
	Back volumes of journals	352	
	Veterinary CD ROMs	110	
	Ph.D. Thesis	1	
	Dailies (Newspapers)	8	
	Printed E-books	68	
Learning centre for competitive exams	In this section, 697 book/guides and 589 back available for preparing competitive exams like IC Exams, TOFEL, GRE, GMAT etc. Magazines displayed for updating the current information.	volumes of magazines are AR, ASRB, UPSC, TNPSC (Tamil and English) are	

Circulation section	The circu	lation counter is automated	using "KOHA" Integrate	ed Library
	Management System".Books are issued on loan and received back in this			
	counter. Barcode scanner is being used in the circulation counter for issue /			
	return of b	ooks.		
Reference section	The library	y has a good reference section	consisting of various rare	collections
	of veterina	ry books, encyclopaedias, and	l dictionaries.Sufficient read	ding tables
	and chairs	are provided to the users.		
Book stack section	Book stac	k section maintains a collecti	on of books that are issue	d on loan.
	Books are	arranged on the shelves accord	ding to Dewey Decimal Cla	ssification
	Scheme. E	each book is assigned with a C	Class number and book nun	nber. Class
	number is	assigned to a book accordin	g to its subject. In this ar	rangement
	of multiple	e copies of the books on each	n subject are kept together.	Members
	are advise	d to check the availability of	the books through the Onl	line Public
	Access Ca	talogue (OPAC) service.		
Journal section	Currently	subscribed Indian journals ar	re displayed in the journal	section. A
	Journal, or	n completion of its volume wi	ill be processed for binding	g. After the
	binding, th	e volume will be accessioned	and added to the back-volur	ne section.
	Necessary	reading tables and chairs are	provided for reading refere	ence.
RFID technology	RFID Tec	hnology for Document Iden	tification and strengthenir	ng Library
	Security S	ystem has been implemented	. Library functions and ser	vices were
	improved	with the following facilities:		
	RFID Tag	s for protecting the documents	3.	
	RFID Rea	RFID Reader for circulation management.		
	RFID Antenna alarm gate for security alert.			
Closed circuit surveillance	Surveillance system with CCTV network has been installed at the library to			
camera system (CCTV).	maintain t	maintain the security system. In this network, 11 numbers of cameras are		
	installed a	t appropriate places of Library	y for recording the movem	ents which
	will occur	during the working hours of t	he library on all working d	ays.
Library automation	The circul	ation activities of the library	has been automated using	g "KOHA"
	Integrated Library Management System" software Necessary equipment for			
	automation of the library viz., computers, printer, scanner, barcode label			
	printer, barcode readers etc., had been bought for initiating automated library			
	services to users.			
Barcode techniques	Preparatio	n of spine label and Bar-cod	led labels for books for m	naintaining
	circulation control is being undertaken with the help of Barcode Technology.			
Online public access	The resou	rces of the library in terms	of books catalogued and	the Online
catalogue	Public Access Catalogue (OPAC) of the library is made available through the			
	library Network.			
E-Repository and archives	E-Content: Institutional repositories are stored and preserved in electronic			
	format in the library.			
		Collection	No.of documents	
		Newspaper clippings	465	
		Question bank	76	
		Faculty publications	254	
		Annual report	6	

6.4.5. Conduct of Practical and Hands-on-Training

SI. No.	Name of the department	Practical and hands-on-training as per the curriculum
1	Animal Nutrition	 Practical classes are conducted on the estimation of proximate principles such as moisture, crude protein, crude fibre, ether extract, total ash, acid insoluble ash, nitrogen free extractives, fibre fractions, etc. Hands on training are provided on preparation of various livestock feeds, silage preparation and mineral mixture preparation.
2	Livestock Farm Complex	 Dairy unit: Herringbone milking parlour, automatic drinker, chaff cutter, dairy ventilation fan, high pressure water jet cleaning system, cow mat, sprinkler loose housing system and total mixed ration machine. Buffalo unit: Head-to-head housing system, sprinkler and wallowing pond. Sheep unit: Scientific management of sheep. Goat unit: Scientific management of goat. Piggery farm: Scientific management of swine with well equipped with modern pig breeding farm and conventional system of housing. Poultry farm: Scientific management of chicken, Japanese quails, turkey, duck, guinea fowls, emu and ostrich. Poultry hatchery: Scientific management of horse, handling and restraining. Fodder production unit: Production techniques on fodder and seed production. Enriched farmyard manure. Farm waste management. Vermicompost production. Panchakavya preparation. Underpendent of a fodder publication.
3	Livestock Production Management	 Handling room (amphitheatre type). Undergraduate laboratory and museum for breed charts, animal house and housing material models. Identification, ageing, castration, dipping practices through demonstration and hands on training. Handling, restraining and scientific management of horses. Demonstration of clean milk production through Herringbone milking parlour. Model houses for cattle, sheep, goat, pigs and poultry. Imparting knowledge on project preparation for establishing different livestock and poultry farms.

		 Economic indices are taught with the available farm inputs and output records. Familiarisation with field situation through exposure visits of various commercial farms such as poultry, cattle and piggery to the students. Students are being taken to respective units of Livestock Farm Complex for practical and hands-on training to the students. Application and use of various livestock farm equipment and instruments are being given hands on training on how to use equipment and instruments for restraining of animals and birds.
4	Livestock Products Technology	 As per MSVE-2016, for third professional year students pertaining to Livestock Products Technology course Unit-I, Dairy plant & dairy Technology Lab are available with milk quality control equipment and milk products preparation equipment which are sufficient to provide hands on training to students. For UNIT-II, mini slaughter hall with lairage and restraining pen, captive bolt pistol are available for hands-on training on slaughter and dressing techniques of food animals. Analytical and quality control laboratories are available for students.
5	Veterinary and Animal Husbandry Extension Education	 The department has four laboratories, audio-visual laboratory, projection unit, mini seminar hall, farmer advisory center and exhibition hall equipped with suitable equipment which are used for practical class and recording of radio and TV programmes. Besides, the college also adopted two villages such as Veerakurichi and Neduvakkotai to give practical exposure to the students on data collection techniques, survey, interview, participatory rural appraisal, case study, etc. Regularly conducting village health camps in an adopted village to give practical exposure to mass contact programmes. The department is regularly arranging mass media programmes through radio and television. The students are also permitted to participate in the programme to learn the procedure for dissemination of scientific information to the farming community. Students are also being taken to study tour to near shandies and All India Radio station to give practical knowledge on mass media programmes. Eminent persons in the field of extension and economics are invited for delivering guest lectures. The department museum has display boards, charts and student models on various animal husbandry and academic activities.
6	Veterinary Anatomy	 Students are provided with dissection manuals for hands on training to learn the regional anatomy of domestic animals. Learning materials like assorted bones, fully mounted skeletons, body regions, joints and visceral organs are kept for their regular practical classes for better understanding of veterinary anatomy. Microscopes with all microscopic slides of organs about various systems of the body and embryos of various developmental stages are also provided during histology and embryology classes.

7	Veterinary Clinical Complex	• Under VCP programme (fourth and final year), all the students are attending clinical cases regularly during ward hours and they are visiting ambulatory clinics as per VCI norms.
8	Veterinary Gynaecology and Obstetrics	 As per the VCI semester pattern, three courses for the under graduates are being offered. Facilities such as autoclave, binocular microscopes, binocular research microscope, colour Doppler ultrasonogram, hind quarter elevator, incubator, monopan electronic weighing balance, stereo zoom microscope, trinocular microscope, water bath, water suction pump with small museum, under graduate laboratory and a lecture hall with extension aids are available for teaching. Veterinary Gynaecology:
		 This course imparts practical knowledge on reproductive system of cow by various hands on training methods. Using slaughtered animal genitalia in palpation table for rectal examination
		 Examination. Examination of cervical mucus by laboratory techniques. Demonstration of different hormonal preparations. Application of different hormonal protocols in animals for synchronization. Demonstration and hands on training on ultrasound in reproduction. Use of gynaecological instruments and appliances in animals. Demonstration of reproductive pathological conditions using museum specimens. Pregnancy diagnosis using rectal examination in farm animals. Demonstration of oocyte collection and grading. Estrous detection using vaginal cytology in bitches. Termination of pregnancy in bitches and its continuous follow up using ultrasound.
		 Demonstration of pelvis using skeleton of pelvis and hands on measurements of pelvimety in animals. Demonstration of different types of placenta. Use of various obstetrical instruments in animals coming with calving and post partum difficulty. Demonstration and hands on training Epidural and other obstetrical anaesthesia. Manipulation of fetal malpresentation using specially designed phantom boxes.
		 Demonstration and nands on training on fetotomy procedures. Handling of prolapse of genitalia and application of vulvar sutures in animals. Demonstration and hands on training for students on Caesarean section in large animals.

		Veterinary Andrology and Reproductive Techniques:
		 Exposure visit to frozen semen bank for Planning and organization of Artificial insemination (A.I) centre. Selection, care, training and maintenance of breeding bulls for A.I.
		• Andrological investigations for breeding soundness of bulls.
		• Preparation of artificial vagina for semen collection.
		• Hands on practical on evaluation of semen (macroscopic, microscopic and biochemical).
		• Practical training on artificial insemination using frozen semen in live farm animals.
		• Handling, management and shipment of frozen semen and liquid nitrogen containers.
		• Semen collection and A.I in dogs.
9	Veterinary Medicine	 Clinical procedures and hands on training are being given in live animals during clinical ward hours. Hands-on training is being given to students about sample collection, diagnosis and differential diagnosis of infectious diseases of cases presented to the ward. Point of care diagnosis of helminthic and haemoprotozoan diseases of cattle, sheep and goats and dogs. Rumen fluid examination, milk sample examination, urine sample examination are practiced by students in clinical laboratories. Demonstration of ECG, ultrasound, endoscopy, catheterization, CSF fluid collection, liver biopsy, skin biopsy, lymph node aspiration, pericardiocentesis, abdominocentesis, intubation techniques on clinical cases. Skin scraping, woods lamp examination, point of care staining techniques for dermatological clinical cases. Demonstration and hands on training on physical and chemical restraining of wild animals are given regularly through the Wild
10	Veterinary Parasitology	 Routine practical classes for undergraduate students in veterinary helminthology like faecal samples processing and examination for identification of parasitic eggs Routine practicals in veterinary entomology like skin scraping examination for identification of arthropods and acarines are carried out. Routine practicals in veterinary protozoology like blood smear examination for identification of blood protozoans and faecal examination for cyst and oocysts are conducted for the benefit of the students. For morphological identification of helminths, arthropods and protozoan parasites, permanent mounted slides and reference charts are available. Gross specimens and lesions of helminths, arthropods and protozoan parasites are available in the museum under the concept of "seeing is believing". Students are being demonstrated on dipping and deworming in poultry and small ruminants.

11	Veterinary Physiology and	Veterinary Physiology:
	Biochemistry	• Practical classes and hands-on training on haematological parameters, ECG, blood pressure, experimental physiology, ruminant and monogastric physiology, respiratory parameters, male and female reproduction, lactation, growth and environmental physiological parameters.
		Veterinary Biochemistry:
		• General veterinary biochemistry - practicals on buffer preparation, qualitative analysis of bio molecules such as carbohydrates, proteins and lipids are carried out.
		• Intermediary metabolism and veterinary analytical biochemistry - colorimetric and spectrophotometric analysis of serum analytes such as glucose, proteins, lipids, electrolytes, enzymes, vitamins, organ function tests and urine analysis are carried out to provide hands on training to the students.
		Veterinary Clinical Biochemistry and laboratory diagnosis:
		• Clinical significance and interpretation of serum glucose, lipids, proteins, blood urea nitrogen, creatinine, uric acid, ketone bodies, bilirubin and electrolytes from samples are done regularly. Significance of interpretation of clinical examination of urine is also explained to the students.
		• Evaluation of acid-base balance and its interpretation; biochemical aspects of digestive disorders;endocrine function tests, liver, kidney and pancreatic function tests, enzyme assays for detection of tissue / organ affections are carried out to teach the students
		Animal Biotechnology:
		DNA and plasmid isolation.
		Gel electrophoresis techniques.
10		Polymerase chain reaction
12	Veterinary Public Health and Epidemiology	 Three laboratories namely milk hygiene lab, meat hygiene lab and Zoonoses cum epidemiology laboratories are available to conduct practical classes and provide hands-on training to UG and PG students. As per MSVE-2016, practical exposure on milk hygiene, meat hygiene, food safety, epidemiology, zoonoses and environmental hygiene are being provided to third professional year students.
13	Veterinary Pathology	 Digital images and charts of important lesions are displayed to know the clinical signs, gross lesions, histopathological changes, etiological agent and diagnostic methods by the UG students. Important necropsy photos and videos are shown to the students. Microscopic slides are displayed to the students to know the important microscopic lesions of the various diseases. Museum specimens are shown to the students to know the lesions and for easy diagnosis of diseases. For UG practicals, students are provided with dead birds for hands on training on necropsy. For UG practicals, students are provided with histopathological slides for hands on training to know the microscopic lesions. During practical examination, organs or birds are provided to

14	Veterinary Pharmacology and Toxicology	 Hands on experience are given to the UG students in preparation and compounding of drugs; toxicological analysis of field samples, identification of poisonous plants;smooth muscle pharmacology assays; Animal simulation software is also used for practical classes.
15	Veterinary Surgery and Radiology	 Students are allotted on rotational basis for surgical ward units such as small and large ruminants and small animals and also referral unit like small animal theatre, large animal theatre and radiology unit. Hand on training to the students for suture technique; anesthesia monitoring and surgeries are also given.
16	Education Cell	 Regular exposure visit have been arranged for the students of all academic years to veterinary vaccine production and biological, dairy plants, meat and meat processing plants, slaughter houses, lab animal houses, zoonotic disease diagnostics and water testing labs, food processing labs, stud farms, cattle farms etc. based on the curriculum. Special lectures were delivered on One-health aspect for control of zoonotic diseases, procedure for availing bank loans on animal husbandry projects for students. Motivational programmes on opportunities in RVC; GRE and TOEFL related programmes and research opportunities at USA were organized for the benefit of students. Workshop on bio prospecting and conservation of bioresources, '3 Bs' of life (Being, Belonging and Becoming), personality assessment, development and team work was also conducted for the students. Psychological counselling programme for the students was also organised.

6.4.6. Supervision of students in PG/Ph.D. programmes: Not applicable

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

Students feedback are obtained to evaluate the course teacher's teaching strategies (delivering of subject, use of audio-visual aids, clarity of expression, interaction with students, etc.) and provide feedback regarding their level of understanding of the subject at the end of every semester/course in a prescribed proforma developed by the University. So far no issues were raised from the stakeholders.

(Enclosed the **Annexure 1:** Evaluation of teachers by students and **Annexure 2:** Evaluation by controlling officer).

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

Name of the degree programme	Actual student admitted in last five years				Attrition (%)									
	Y1	Y2	¥3	¥4	¥5	Y6	¥7	Y1	Y2	¥3	¥4	¥5	Y6	¥7
	2015-16 Batch	2016-17 Batch	2017-18 Batch	2018-19 Batch	2019-20 Batch	2020-21 Batch	2021-22 Batch	2015-16 Batch	2016-17 Batch	2017-18 Batch	2018-19 Batch	2019-20 Batch	2020-21 Batch	2021-22 Batch
B.V.Sc. & A.H.	62	61	81	80	79	80	101	8.0	-	2.4	1.2	-	1.2	-
Sanctioned strength*	62	61	81	81	81	81	101							

Undergraduate programme (B.V.Sc.&A.H.)

6.4.9. ICT Application in Curricula Delivery

SI. No.	Use of ICT in teaching and practical classes	Whether the Degree Programme is meeting the expectations?	Any shortfall
1	 Department of Veterinary Anatomy Power point presentations are used by the faculty during routine teaching. 	Yes	No
2	 Department of Veterinary Physiology and Biochemistry Simulation experiments on nerve muscle physiology are demonstrated using different software like Digi frog, etc. Power point presentations are used for teaching theory and practical classes whenever needed. 	Yes	No
3	 Department of Livestock Production Management One classroom is available with ICT facility. Audio-visual aids are used in practical classes. Both theory and practical classes are taken through online platform using ICT facilities by the concerned faculties whenever needed. Online theory exams are being conducted through Google forms. Practical examination and viva voce are being conducted through online mode. Assignments are being submitted by the students through online mode. 	Yes	No
4	 Department of Veterinary Microbiology Virtual classes and power point presentations are being carried out in theory and practical classes routinely for the students. 	Yes	No
5	 Department of Veterinary Pathology Theory and practical classes for are being taken through online by using Zoom and Google meet platform. Internal examination is being conducted through Google forms. 	Yes	No
6	 Department of Animal Genetics and Breeding Virtual classes and power point presentations are being carried out in theory and practical classes routinely for the students on different types of animal breeds and their conservation. 	Yes	No
7	 Department of Animal Nutrition Power point presentations Virtual classes 	Yes	No

8	 Department of Veterinary Pharmacology and Toxicology Practical classes on autonomic nervous system and central nervous system are being conducted using animal simulation software. Virtual classes and power point presentations are being carried out in theory classes. 	Yes	No
9	 Department of Veterinary Public Health and Epidemiology Virtual classes and power point presentations are being carried out in theory and practical classes routinely for the students. Epidemiological software being demonstrated in the practical classes. Displaying teaching materials in online regarding transmission dynamics of zoonotic diseases, clean milk and meat production, and environment related activities particularly different kind of pollutions, sources of water, disposal of farm wastes, etc. 	Yes	No
10	 Department of Veterinary Parasitology Veterinary helminthology, entomology and protozoology laboratory has ICT facility for teaching of practical classes forstudents. 	Yes	No
11	 Department of Livestock Products Technology Sufficient ICT facilities are available for both theory and practical classes. 	Yes	No
12	 Department of Veterinary and Animal Husbandry Extension Education The practical classes are being conducted in different laboratories available (audiovisual laboratory, projection unit, mini seminar hall, farmer advisory centre and exhibition hall) in the department, which are equipped with ICT facilities and used for recording of radio and TV programmes. A smart Classroom with facilities such as interactive board, LCD display and public address systems are available for handling classes to the students. 	Yes	No
13	 Department of Veterinary Surgery and Radiology Online classes and case discussions are being carried out using online platforms like Google meet and Zoom software. 	Yes	No
14	 Department of Veterinary Medicine Interactive display board. Lecture capture camera. Audio and video facilities (Collar mic, portable hand held mic with speaker). Computer system equipped with web cam, head phone and other accessories for online class. 	Yes	No
15	 Department of Veterinary Gynaecology and Obstetrics ICT mode of online education by Google meet is being practiced for the undergraduate students. 	Yes	No
16	 Teaching Veterinary Clinical Complex Online classes and case discussions are being carried out using virtual meeting software. 	Yes	No
17	 Instructional Livestock Farm Complex Power point presentations. Recorded videos on livestock farming management systems. Success stories of the farmers and entrepreneurs. Audio-visual displays on good management protocols on farm management systems. 	Yes	No

18	 Library KOHA software and other online library management tools are being employed routinely for teaching. 	Yes	No
19	 Education Cell Total number of Classrooms - 5 numbers Classrooms with ICT facility - 5 numbers Students' laboratories - 23 numbers Research laboratories - 14 numbers Seminar halls - 3 numbers Smart Classrooms - 4 numbers LCD facilities for teaching - 8 numbers 	Yes	No

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.

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, <u>**Dr**.N. Narmatha, Dean</u> hereby certify that the information contained in theSection6.4.1 to 6.4.9 are furnished as per the records available in the college, and degreeawarding university.

Signature of Dean of the College with Date & Seal DEAN Veterinary College and Research Institute Orathanadu-614 225, Thanjavur Dist.

Annexure 1

EVALUATION OF TEACHERS BY STUDENTS

(done after completion of every course)

Name of the Teacher	:
Designation	:
Department	;
Course No., Title & Credit hours	ţ
Start date of the semester	:
Closure date of the semester	ŝ

(tick in the appropriate column)

21.027		GRADING				
S.No.	PARAMETERS	Excellent Good (A) (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					

 $\label{eq:total score} \begin{array}{l} \mbox{=} \{ \mbox{No. of ticks in col. (A) x 3} + \{ \mbox{No. of ticks in col. (B) x 2} \} + \{ \mbox{No. of ticks in col. (C) x } \\ \mbox{1} \} + \{ \mbox{No. of ticks in col. (D) x 0} \} \end{array}$

Mean score = Total score / 15

Name of the student and signature (optional)

Annexure 2

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

5

Name of the Teacher

Designation and address :

(tick in the appropriate column)

		GRADING				
S.No.	PARAMETERS	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					

 $\begin{array}{ll} \mbox{Total score} &= & \{ \mbox{No. of ticks in col. (A) x 3 } + \{ \mbox{No. of ticks in col. (B) x 2 } + \{ \mbox{No. of ticks in col. (C) x } \\ & 1 \} + \{ \mbox{No. of ticks in col. (D) x 0 } \} \\ \mbox{Mean score} &= & \mbox{Total score} / 10 \\ \end{array}$

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