



**Tamil Nadu Veterinary and
Animal Sciences University**



**POSTGRADUATE DIPLOMA (DISTANCE EDUCATION - ONLINE MODE)
COURSES FOR THE YEAR 2014 - 2015**

Information Brochure

2014

**Directorate of Distance Education
Tamil Nadu Veterinary and Animal Sciences University
Madhavaram Milk Colony
Chennai - 600 051**

TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY
DIRECTORATE OF DISTANCE EDUCATION

About the University

The Tamil Nadu Veterinary and Animal Sciences University (TANUVAS) blossomed from the roots of Madras Veterinary College (MVC), an internationally acclaimed, century old institution. This institute had a modest beginning as an Agricultural School at Saidapet, Chennai, India in the year 1878 offering diploma and certificate courses in the field of veterinary science. Later Madras Veterinary College was affiliated to a Madras University as early as in 1936. It was the only veterinary college in the erstwhile composite Madras State till mid - 1950's. Over the years, the college had earned international repute and became university in September 1989. The university had instituted itself as the knowledge capital in veterinary and animal sciences in the country and serves the academicians, students, farmers, entrepreneurs and public at large.

The administrative office of TANUVAS is located at Madhavaram Milk Colony (MMC), Chennai-600 051. University headquarters encompasses the office of the Vice-chancellor, Registrar, Finance Officer, Controller of Examinations, Director of Research, Director of Extension Education, Director, Centre for Animal Production Studies, Director, Centre for Animal Health Studies, Director of Distance Education and Estate Officer.

Mission

The Tamil Nadu Veterinary and Animal Sciences University, Chennai, India was established on 20th September, 1989 with a mandate to impart education, further the advancement of learning and prosecution of research and undertake extension to rural people in co-operation with the government departments in different branches of veterinary and animal sciences.

Our Vision

Tamil Nadu Veterinary and Animal Sciences University desires to be an institution of international excellence in providing education and pursuing research in the field of veterinary, animal and food sciences. The University develops innovations to disseminate scientific knowledge and skill for enhancing livestock and poultry productivity through the use of technologies of social, economic and environmental relevance developed by adopting a team approach.

Mandate of the University

- ❖ To impart education in different branches of veterinary, animal and basic sciences.
- ❖ To further the advancement of learning and pursuing research in veterinary and animal sciences.
- ❖ To undertake extension of research findings to the beneficiaries in co-operation with the line departments concerned.

Establishment and growth

The establishment and growth of TANUVAS is directly linked with the existence of Madras Veterinary College. Over the years of successful governance, the institute attained the status of a college in 1903 and started functioning at Vepery, Chennai, India. In 1974, the college was affiliated to the Tamil Nadu Agricultural University (TNAU) and in 1976, it became a constituent unit of TNAU. The Fisheries College and Research Institute, Thoothukudi was started in the year 1977. A second veterinary college was started at Namakkal in the year 1985. All these units were brought under TANUVAS through Act 42 of 1989. Two more Veterinary College and Research Institutes, one at Tirunelveli and another at Orathanadu in Thanjavur District were started in the year 2012 - 13. The Institute of Food and Dairy Technology, Koduvalli, Chennai which was established in the year 1993 and was upgraded as College of Food and Dairy Technology (CFDT) on 10.04.2012. A College of Poultry Production and Management was established at Hosur on 18.07.2011 to offer academic programmes of excellence in poultry production and management to take up need based research programmes to poultry industry and to create strong intra and inter linkages between entrepreneurs of poultry industry and the institute through technology dissemination and adoption.

Tamil Nadu Veterinary and Animal Sciences University was conferred with the prestigious “**Sardar Patel Outstanding ICAR Institution Award-2011**”, recognizing its meritorious performance in education, research and extension in the country in the field of agricultural sciences including veterinary, animal and fisheries sciences. TANUVAS is the first veterinary university in the country to bag this coveted award.

Directorate of Distance Education

The directorate is vested with responsibility of imparting training, knowledge up scaling and technology input in veterinary and animal sciences to the different target groups like veterinarians, farmers, entrepreneurs, unemployed personnel, school dropouts and practising farmers. The activities have a wide base of post-graduate diploma programmes, skill development courses, self employment courses, continuing education modules, distance education certificate courses and technology dissemination in veterinary and animal sciences through print and e-media. This directorate is unique in launching multi-approach knowledge updating programmes like skill, diploma and distance education programmes.

At present, the directorate's activity is spread over on the following:

- ❖ 21 online post-graduate diploma courses in veterinary and animal sciences
- ❖ 15 skill development and 11 self-employment programmes
- ❖ 5 modules for continuing education for field veterinarians
- ❖ 22 distance education certificate courses

Considering the growing demands of field veterinarians and also the technical personnel involved in livestock and poultry industries who do not have much time to engage themselves in regular PG programmes for up scaling of knowledge and skills in Veterinary and Animal Sciences, the distance education mode PG Diploma courses of TANUVAS offers an excellent opportunity to update their knowledge base and also the professional competency at the field level. TANUVAS offers Postgraduate Diploma Courses of one year (2 semesters) duration through Distance Education mode from the academic year 2011-2012 onwards.

About the PG Diploma Distance Education Online Mode Programme

Postgraduate Diploma Course (Distance Education-Online Mode) of one year duration consists of two semesters. Each semester accounts for 110 working days with a contact class programme of 10 days duration.

a) Admission & Selection

Advertisements about the courses offered are published in print media in English dailies and TANUVAS website; **www.tanuv.ac.in**. The applications received from the candidates will be scrutinized by a committee for selection of candidates. The selected candidates will be informed about their admission through email. The selected candidates shall appear in person on the first day of the first semester for registration of courses and orientation. Students will be allowed to register for the semester, only after payment of course fee. All the courses offered for the particular semester shall be registered.

b) Course content

The course content for each course has been designed by the concerned subject matter specialists identified by the university after many deliberations and evaluation by peer groups. There are Course Directors, Co-ordinators and Content Developers for each course. Practical sessions and individual hands are dealt during the contact class programme of each semester.

c) Content delivery / Learning strategy

Self Learning Materials in printed form have been prepared and will be sent to the candidates. The soft copy of course materials will also be sent to the candidates through online. Normally a course has been divided into 4-5 units; accordingly the course materials are prepared along with questions for individual units. Academic schedule for the diploma course will be prepared and communicated to the Course Directors and candidates concerned. The unit assignments have to be submitted to the course directors as per the academic schedule.

d) Contact Class

Contact class of 10 days duration in each semester will be held at the respective departments of the College. Attendance is compulsory for the contact class programme and absenting for whatsoever reason is not permitted. Final theory examination for each course will be held during the contact class programme. The comprehensive skill evaluation (practicals) will be held for all the courses in a semester during the last three days of the contact programme

e) Evaluation

The evaluation of PG Diploma distance mode programme shall be held as "Unit Based Assessment (UBA)", "Comprehensive Course Assignment (CCA)", "Final Theory Examination (FTE)" and "Comprehensive Skill Evaluation (CSE)". There will be a comprehensive course assignment for every course. The topic will be decided by the course coordinator. Log book / records are to be maintained by the students for each course. At the end of the second semester, the requirements include a case study report / project report in the respective area of specialisation, which will be evaluated. The topic for the project work needs to be chosen during the orientation programme itself i.e first day of the first semester. The candidates are allowed to visit the faculties anytime during the First & Second Semester. The project is to be submitted on the first day of contact class during the II Semester.

For pass in a course, every candidate shall get a minimum of 60% in every Unit Based Assessment and FTE in a course. Besides, a minimum of 60% is required in CCA and CSE. The successful candidates after completion of diploma requirements shall be graded, based on overall percentage of marks obtained in all the courses of the diploma programme as follows:

60-74% - Second Class, 75-89% - First Class, 90 & above - Distinction.

f) Academic schedule (Probable)

<i>Orientation & Commencement of Semester-I :</i>	<i>3rd week of August 2014</i>
<i>Contact class:</i>	<i>2nd week of December 2014</i>
<i>End of Semester-I:</i>	<i>3rd week of December 2014</i>
<i>Commencement of Semester-II:</i>	<i>2nd week of January 2015</i>
<i>Contact class:</i>	<i>4th week of April 2015</i>
<i>End of Semester-II:</i>	<i>1st week of May 2015.</i>

POSTGRADUATE DIPLOMA (DISTANCE EDUCATION-ONLINE MODE)
COURSES OFFERED -2014-2015

S.No	Name of the Course	Eligibility	Venue	Course fee (Rs.) (Indian Nationals)
	For Veterinary Graduates			
1.	Small Animal Orthopedics (PGDORT)	B.V.Sc. / B.V.Sc. & AH	MVC, Chennai	20,000/-
2.	Regenerative Medicine (PGDRM)			20,000/-
3.	Veterinary Ophthalmology (PGDOPH)			20,000/-
4.	Small Animal Dermatology (PGDSAD)			20,000/-
5.	Small Animal Emergency and Critical Care Medicine (PGDECM)			20,000/-
6.	Small Animal Diagnostic Ultrasound (PGDDUS)			20,000/-
7.	Ethno Veterinary Practices (PGDEVP)		VUTRC, Thanjavur	10,000/-
8.	Zoonoses (PGDZ)		MVC, Chennai	10,000/-
9	Bovine Infertility and its Management (PGDBIM)			10,000/-
10	Wild Animal Disease Management (PGDWADM)			20,000/-
11	Veterinary Clinical Laboratory Diagnosis (PGDVCLD)			10,000/-
12	Veterinary Endoscopy(PGDVEN)		VC&RI, Namakkal	20,000/-
13	Bovine Production Diseases (PGDBPD)			10,000/-
	For Veterinary and other Related Science Graduates			
14	Feed Manufacturing Technology (PGDFMT)	B.V.Sc./ B.V.Sc.&AH./ B.E (Agri)/ B.Tech (Agri)/ B.F.Sc./ B.Sc. (Life sciences)	VC&RI, Namakkal	10,000/-
15	Commercial Poultry Production and Management (PGDCPPM)	Any Degree in Life Sciences		10,000/-
16.	Diversified Poultry Production (PGDDPP)	B.V.Sc./ B.V.Sc.&AH./ B.Sc (Agri)/ B.Tech (Food Processing Technology / Food Technology)	MVC, Chennai	10,000/-

17	Advanced Reproductive Biotechnology in Animal Models(PGDARB)	Graduate with B.V.Sc./ B.V.Sc. and AH/MBBS/ M.Sc. Life Sciences or any other relevant disciplines	MVC, Chennai	25,000/-
18	Acaro-Entomology(PGDAENT)	B.V.Sc./ B.V.Sc.&A.H./ B.Sc. (Zoology/ Biotech./ Microbio.)	VC&RI, Namakkal	10,000/-
19	Dairy Processing and Quality Assurance(PGDDPQA)	B.V.Sc. & A.H. /B.Tech (Food Processing Technology/ Food Technology/ Dairy technology and related courses) / B.Sc (Dairy Science) / M.Sc (Dairy Science) / B.Sc (Agri) / B.E. (Agri) / B.Tech (Agri) or any other food related disciplines.		10,000/-
20	Post Harvest Technology and Quality Assurance of Meat and Meat Products (PGDQAMP)	B.V.Sc/ B.V.Sc.& A.H. Bachelor's Degree in Food Science/ Food Technology / Life sciences	MVC, Chennai	10,000/-
21	Participatory Rural Appraisal (PGDPRA)	B.V.Sc/ B.V.Sc&AH, B.Sc(Agri.)/(Hort.)/(Home Science)/(Sericulture)/(Forestry)/(Diary-Science) (Rural Development) degree and MSW with specialization in rural development, B.E., (Agri. Engineering)	MVC, Chennai	10,000/-

The application form and information brochure can be downloaded from the university website: www.tanuv.ac.in. The last date for receipt of completed application by the Director of Distance Education at the address given below is **30.07.2014 up to 5.00p.m.**

The selected candidates should remit the course fee on or before the date specified in admission letter. **Registration / Course fee shall be paid through online payment to the Account No: 332902010721823 – “DDE PG Diploma Distance Mode Programme, TANUVAS”- Union Bank of India, Madhavaram Branch, Chennai- 600051 with the following option;**

- i) **Candidates can pay in any Union Bank of India branches in the A/c No. 332902010721823 – “DDE PG Diploma Distance Mode Programme, TANUVAS” and mention the transaction number & date of remittance in the application**
- ii) **Candidates can send payment from any other Bank to the A/C No. 332902010721823 – “DDE PG Diploma Distance Mode Programme, TANUVAS”-IFSC Code-UBINO533297 and mention the UTR No. & date of remittance.**

There will be an orientation programme on the first day of commencement of first semester. Attendance at the orientation programme is compulsory. The exact date of orientation programme will be conveyed in the admission letter.

For further details contact:

The Director of Distance Education

Tamil Nadu Veterinary and Animal Sciences University

Madhavaram Milk Colony, Chennai – 600 051.

Tamil Nadu, India.

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Email : dde@tanuvas.org.in

URL: www.tanuvas.ac.in.

1. POSTGRADUATE DIPLOMA IN SMALL ANIMAL ORTHOPAEDICS (PGDORT)

Importance and Impact of the course

Tamil Nadu Veterinary and Animal Sciences University, forerunner in the Veterinary Clinical Sciences has established on specialized orthopaedic unit at Madras Veterinary College Teaching Hospital in the year 1998. Many specialized orthopaedic procedures such as dynamic compression plating, external skeletal fixation systems, circular and hybrid external fixation systems, THR, corrective osteotomies, minimally invasive plate osteosynthesis, interlocking nailing etc. have been standardized and are routinely being done. This orthopaedic unit receives cases from all over the country and also from neighbouring countries. Numerous pet practitioners within and outside the country have shown keen interest in attending the small animal orthopaedic surgery training programmes that have been conducted by the Department of Veterinary Surgery and Radiology since the last three years. It may be relevant to mention that there has been an increasing demand for specialty services within the country from pet owners. Present day pet owners are willing to spare higher expenses for the treatment of their pets. Hence, necessary skills to diagnose treat and perform orthopaedic surgeries, need to be acquired.

Eligibility (Minimum)

Candidates with B.V.Sc. / B.V.Sc. & AH., degree are eligible.

Course Fee

Indian Nationals – INR 20,000/-

Foreign Nationals – USD 1000-

Duration: One Year (Two Semesters)

Method of Selection

As per TANUVAS academic regulations and rules in force

Course Content

Sl.No	Course	Course title
SEMESTER I		
1.	ORT 701	Applied clinical anatomy of the fore and hind limb in dogs
2.	ORT 702	Bone healing and Orthopaedic biomechanics
3.	ORT 703	General and special Orthopaedic examination
4.	ORT 704	Diagnostic imaging in small animal orthopaedics
5.	ORT 705	Basic Orthopaedic Surgical techniques
SEMESTER II		
6.	ORT 706	Diseases affecting joints-Shoulder, Elbow, Hip and stifle

7.	ORT 707	Diseases of Muscle and tendon
8.	ORT 708	Physiotherapy
9.	ORT 709	Skeletal neoplasms
10	ORT 799	Project

Contact Classes

First Semester – 10 days

Second Semester – 10 days

Course offered by

Department of Veterinary Surgery and Radiology,
Madras Veterinary College,
Chennai – 600 007.

2. POSTGRADUATE DIPLOMA IN REGENERATIVE MEDICINE (PGDRM)

Importance and Impact of the course

Regenerative medicine is the vanguard of 21st century health care. Regenerative medicine will lead to the creation of fully biological or biohybrid tissues and organs that can replace or regenerate tissues and organs damaged by disease, injury, or congenital anomaly. Because of the economic potential of this regenerative medicine industry with a forecast of \$500 billion by 2010, initiatives to capture significant shares of this market are multiplying around the world and competition is mounting. A successful regenerative medicine initiative requires the expert knowledge of scientists, engineers, physicians, researchers, and many others in a multidisciplinary effort. Focused national initiatives are vital to advancing this promising science. Regenerative medicine offers the potential to cure countless fatal and debilitating conditions through therapies that spur *in- vivo* regeneration and *in – vitro* creation of healthy tissues for implantation, The next evolution of medical technology is now in sight, and has the potential to become reality in the next 20 years. The programme aims to provide career based skills to the students, in emerging field of medicine “Regenerative Medicine” through multidisciplinary approach for translation to ethical clinical practice.

Eligibility (Minimum)

Candidates with B.V.Sc./ B.V.Sc. & AH., degree are eligible.

Course Fee

Indian Nationals- INR 20,000/-

Foreign Nationals – USD 1000-

Duration: One Year (Two Semesters)

Method of Selection

As per TANUVAS academic regulations and rules in force

Course Content

SNo	Course Code	Courses
1	RMS 701	Cell and tissue homeostasis in relation to regenerative medicine
2	RMS 702	Functional anatomy , organ failure and current approaches
3	RMS 703	Stem cell biology, manipulation and therapeutic potentials
4	RMS 704	Extra cellular matrix and nanotechnology in regenerative medicine
5	RMS 705	Clinical protocols in regenerative medicine
Second Semester		
6	RMS 706	Neuro-regenerative medicine and regenerative medicine based cancer therapy
7	RMS 707	Regenerative therapies of aesthetic organs, digestive and urogenital system
8	RMS 708	Regenerative therapies of dental and musculo skeletal system
9	RMS 709	Regenerative therapies of cardio vascular, heamopoietic and respiratory system
10	RMS 799	Project

Contact Classes

First Semester - 10 days

Second Semester - 10 days

Course offered by

Department of Veterinary Surgery and Radiology,
Madras Veterinary College,
Chennai – 600 007.

3. POSTGRADUATE DIPLOMA IN VETERINARY OPHTHALMOLOGY (PGDOPH)

Importance and Impact of the course

Ophthalmology is a specialized field in Veterinary Science. This branch of Tamil Nadu Veterinary and Animal Sciences University, a forerunner in Veterinary Clinical Sciences has established an ophthalmology unit at Madras Veterinary College Teaching Hospital which receives cases from all over the country and neighbouring countries. is gaining momentum due to the great demand for the approach and modalities employed in the diagnosis and treatment options practiced. The problems related to vision loss or visual deficit is of great concern for the animal lovers or owners.

In addition, there is a great demand for the training programmes in ophthalmic surgery from the veterinarians. There are also requests from various veterinary surgeons working in the Animal Husbandry department both within the state and also from outside to undergo specialized training in the area. For veterinarians working in various pharmaceutical companies involved in toxicological studies, ocular changes are one of the important parameters. Keeping these technical needs in view, TANUVAS offers a postgraduate diploma course in veterinary ophthalmology to benefit the veterinarians.

Eligibility (Minimum)

Candidates with B.V.Sc./ B.V.Sc. & AH., degree are eligible.

Course Fee

Indian Nationals – INR 20,000/-

Foreign Nationals – USD 1000-

Duration: One Year (Two Semesters)

Method of Selection

As per TANUVAS academic regulations and rules in force

Course Content

S.No.	CODE	COURSE
First Semester		
1	OPH 701	Normal anatomy of the eye in animals
2	OPH 702	Physiology of vision and refraction
3	OPH 703	Ophthalmic examination
4	OPH 704	Basic ophthalmic equipments -diagnostics
5	OPH 705	Ocular pharmacology
Second Semester		
6	OPH 706	Common surgical affections of the eye
7	OPH 707	Basic ophthalmic surgical techniques
8	OPH 708	Ocular manifestation of systemic diseases
9	OPH 709	Ocular neoplasms in domestic animals
10	OPH 799	Project work

Contact Classes

First Semester – 10 days

Second Semester – 10 days

Course offered by

Department of Veterinary Surgery and Radiology,
Madras Veterinary College,
Chennai – 600 007.

4. POSTGRADUATE DIPLOMA IN SMALL ANIMAL DERMATOLOGY (PGDSAD)

Importance and Impact of the course

Companion animal population is growing tremendously in India. Majority of the breeds available elsewhere in the world are also present in India. Aesthetic importance of the pets is of growing concern for the client community. Skin diseases are one of the main causes for client distress and this skin disorder is one among the top 10 diseases, which require the technical assistance of veterinarians. Dermatological problems constitute more than 25% of the total case load in small animal practices all over the world. A significant number of dermatological disorders are of recurring type and needs advanced diagnostic and therapeutic skills for their management. Hence, it is necessary for the practitioners to enhance their dermatological diagnostic and therapeutic skills to render better services and advanced therapeutic options to the client community, which seeks always the best of the care for their pets.

Being the country's premier tertiary Veterinary Teaching Hospital, the MVC hospital has the country's first Dermatology Clinic, a Referral Clinic. The Dermatology Referral Clinic receives about 40 dermatological cases every day and referrals from all parts of India for appropriate diagnosis and treatment. This dermatology academic programme would offer a concise and complete coverage of small animal dermatology, with a practical emphasis on reviewing the day to day dermatological problems encountered in Veterinary practice. Participants would be trained on different diagnostic techniques and therapeutic management skills in dermatology. Participants will also experience hands-on training in examination of otoscopic, tympanic membrane and ear lavage. The course will impart necessary knowledge and skills to combat dermatological cases with early diagnosis and effective treatment.

Eligibility (Minimum)

Candidates with B.V.Sc./ B.V.Sc. & AH., degree are eligible.

Course Fee

Indian Nationals – INR 20,000/-

Foreign Nationals – USD 1000-

Duration: One Year (Two Semesters)

Method of Selection

As per TANUVAS academic regulations and rules in force

Course Content

S.No	CODE	COURSE TITLE
	First Semester	
1.	DER 701	Dermatological examination and procedures
2.	DER 702	Dermatological therapy
3.	DER 703	Parasitic dermatitis
4.	DER 704	Bacterial dermatitis
5.	DER 705	Fungal and yeast dermatitis
	Second Semester	
6.	DER 706	Allergic dermatitis
7.	DER 707	Endocrine and metabolic dermatoses
8.	DER 708	Ear diseases and regional dermatitis
9.	DER 709	Auto immune skin diseases, immune related skin disease and skin tumors
10.	DER 799	Project work

Contact Classes

First Semester – 10 days

Second Semester – 10 days

Course offered by

Department of Veterinary Clinical Medicine, Ethics and Jurisprudence,
Madras Veterinary College,
Chennai – 600 007.

5. POSTGRADUATE DIPLOMA IN SMALL ANIMAL EMERGENCY AND CRITICAL CARE MEDICINE (PGDECM)

Importance and Impact of the course

Small Animal Practice is gaining importance in the veterinary field. Now tremendous growth had occurred in the knowledge, technology, skill and quality of small animal practice and service delivery in India. Small animals, especially dogs became the prime companions for all classes of people, specifically for senior citizens. Many a times, these curious companion animals develop critically ill disorders or meet with life threatening emergencies. In such scenarios, not only the elite, even common people, out of affection, never mind spending money and time to get better diagnosis and patient care for their pets. They expect advanced emergency care for their pets from a practising veterinarian similar to the advanced care they receive from medical practitioners. Hence it is highly essential for the practising veterinarians to update their knowledge and skills on small animal emergency and critical care medicine; MVC Hospital, the first veterinary Critical Care Unit (CCU) of the country was recognized for its excellence in India and abroad.

This post graduate diploma programme gives knowledge on major emergency and critical care issues relevant to companion animal practice. Both novel information and proven techniques are covered. The major objective of the programme is to acquire problem solving skills. Rather than simply absorbing facts and theories, participants would be trained to solve specific clinical problems in a systematic way. The course will allow participants to tackle the questions and dilemmas they are confronted with every day and allow participants to work together to analyse conflicting data and points of view, set priorities in emergency and critical care medicine and lay the foundation for further professional development.

Eligibility (Minimum)

Candidates with B.V.Sc./ B.V.Sc. & AH., degree are eligible.

Course Fee

Indian Nationals – INR 20,000/-

Foreign Nationals – USD 1000-

Duration: One Year (Two Semesters)

Method of Selection

As per TANUVAS academic regulations and rules in force

Course Content

S.No.	Course Code	Title of the Course
	First Semester	
1	ECM701	Emergency Clinical Procedures & Monitoring Critical Care patients
2	ECM702	Shock & Hematological Emergencies
3	ECM703	Cardiac & Respiratory Emergencies
4	ECM704	Neurological Emergencies & Metabolic Emergencies
5	ECM705	Gastro intestinal & Reproductive Emergencies
	Second Semester	
6	ECM706	Renal & Toxicological Emergencies
7	ECM707	Fluid therapy and Transfusion Medicine
8	ECM708	Environmental Emergencies & Analgesia for critical care patients
9	ECM709	Nutritional support of the critically ill patients & Nursing Care
10	ECM799	PROJECT

Contact Classes

First Semester – 10 days

Second Semester – 10 days

Course offered by

Department of Veterinary Clinical Medicine, Ethics and Jurisprudence,
Madras Veterinary College,
Chennai – 600 007.

6. POSTGRADUATE DIPLOMA IN SMALL ANIMAL DIAGNOSTIC ULTRASOUND (PGDDUS)

Importance and Impact of the course

In the present day practice of Veterinary medicine, use of modern diagnostic gadgets remains inevitable. Ultrasound is a non-invasive and easy to use diagnostic tool which increases the diagnostic acumen of every clinician. It improves our understanding of the disease process and also augments and accentuates our approach to diagnosis and treatment.

With the expanding animal health care programmes and facilities, there continues to be need to increase the number of advanced animal health care professionals to provide preventive, curative and rehabilitative health services as well as specialty clinical care delivery.

A Distance Mode Programme in Diagnostics Ultrasound helps the practitioners / graduates enjoy the flexible scheduling and an easy quick way to further their clinical education and skill development at their own set pace. The programme aims to impart knowledge and technical skills in sonography, to improve the accuracy of diagnosis in clinical settings and benefit the pet owners by improving the clinical acumen of the practising veterinarians.

Eligibility (Minimum)

Candidates with B.V.Sc./ B.V.Sc. & AH., degree are eligible.

Course Fee

Indian Nationals – INR 20,000/-

Foreign Nationals – USD 1000-

Duration: One Year (Two Semesters)

Method of Selection

As per TANUVAS academic regulations and rules in force

Course Content

S.No	CODE	COURSE TITLE
	First Semester	
1.	DUS 701	Physical principles of ultrasound, instrumentation and patient preparation
2.	DUS 702	Ultrasonography of general abdomen, stomach and intestines

3.	DUS 703	Ultrasonography of liver, spleen and pancreas
4.	DUS 704	Ultrasonography of uro-genital system
5.	DUS 705	Echocardiography and thoracic ultrasonography
		Second Semester
6.	DUS 706	Ultrasonography of Neck
7.	DUS 707	Ultrasound guided biopsy techniques
8.	DUS 708	Artifacts in diagnostic ultrasound
9.	DUS 709	Doppler ultrasound and quantitative aspects of sonography
10.	DUS 799	Project work

Contact Classes

First Semester – 10 days

Second Semester – 10 days

Course offered by

Department of Clinics,
Madras Veterinary College,
Chennai – 600 007.

7. POSTGRADUATE DIPLOMA IN ETHNOVETERINARY PRACTICES (PGDEV P)

Jointly offered by TANUVAS and I-AIM (FRLHT) Bangalore

Importance and Impact of the course

The study of Ethno Veterinary Medicine may be broadly divided into four main approaches:

- ❖ Understanding traditional concepts of livestock health, disease and management.
- ❖ Ethno botany and the nature and applications of plants used within traditional EVM systems.
- ❖ Ethno Pharmacology – Chemical / Pharmacological analyses of traditional remedies and clinical assessment.
- ❖ Applications of natural products with emphasis on livestock health, production and protection.

Ethno Veterinary Medicine (EVM) includes the indigenous beliefs, knowledge, skills, methods and practices pertaining to the health care of animals. Indigenous knowledge systems have proven to be dynamic and adaptive with the qualities of simplicity, functionality, integrative holism and sustainability. Reports also indicate a tremendous increase in the use of alternative medical practices around the world, which almost always involve the use of herbal medicine. Ancient Indian medical and traditional Chinese systems are primarily plant-based using medicinal formulas of numerous combinations of herbs. Many of the EVM practices and preparations are apparently time tested, readily available, location specific, resource and species specific and environment friendly, making the poor livestock farmers dependable on them. Veterinarians are showing greater interest across the globe for some academic understanding of herbal medicine and traditional livestock keeping practices (EVP). Hence, the course would be very much useful for the veterinarians in the days to come.

Eligibility (Minimum)

Candidates with B.V.Sc./ B.V.Sc. & AH., degree are eligible.

Course Fee

Indian Nationals –INR10,000/-

Foreign Nationals – USD 1000-

Duration: One Year(Two Semesters)

Method of Selection

As per TANUVAS academic regulations and rules in force.

Course Content

S.No.	Course No.	Title
	First Semester	
1	EVP 701	Ethnoveterinary practices - contemporary relevance and conservation of Bio-resources
2	EVP 702	Ethnobotany and Pharmacognosy
3	EVP 703	Traditional Medicine Systems (TMS) and Documentation of Local Health Traditions (LHTs)
4	EVP 704	Pharmacological basis of Ethnoveterinary Medicine (EVM)
5	EVP 705	Intellectual Property Rights and Access Benefit Sharing
	Second Semester	
6	EVP 706	PRA and Assessment of Local health traditions
7	EVP 707	Phytochemistry and Phytotoxicology
8	EVP 708	Functional herbal remedies for primary health care of livestock
9	EVP 709	Use of plant products in Animal production and Health
10	EVP 799	Project work

Contact Classes

First Semester – 10 days

Second Semester – 10 days

Course offered by

Ethno Veterinary Medicine Research and Training Centre,
Veterinary University Training and Research Centre,
Thanjavur – 613 403.

8. POSTGRADUATE DIPLOMA IN ZOONOSES (PGDZ)

Importance and Impact of the course

This programme is directed towards the enhancement of knowledge and skills of Veterinarians, medical professionals, dentists, Siddha and Homeopathy professionals in zoonotic diseases. It has been designed in a rapidly expanding and increasingly important area of veterinary and animal sciences such as epidemiological methods which are frequently used by public health veterinarians to determine relevant risk factors associated with disease occurrence. Knowledge of these risk factors is used to direct further research investigation and implement disease control measures.

Further, the threat of bioterrorism and emerging infectious diseases has prompted various public health agencies to recommend enhanced surveillance activities to supplement existing surveillance plans. The majority of infectious diseases and bioterrorist agents are zoonotic. Animals are more sensitive to certain biological agents and hence they are used as clinical sentinels for early diagnosis. The course will provide new skills relevant to their current and future employment in the national and international health arena as the programme offers units of epidemiology, zoonoses, animal health economics, policy development and research. It will be well suited to graduates aiming to serve the public health sector and also individuals seeking a mid – career change.

Eligibility (Minimum)

Candidates with B.V.Sc./ B.V.Sc. & AH., degree are eligible.

Course Fee

Indian Nationals – INR 10,000/-

Foreign Nationals – USD 1000-

Duration: One Year (Two Semesters)

Method of Selection

As per TANUVAS academic regulations and rules in force

Course Content

S.No.	Course No.	Course Title
	First Semester	
1	DPH 701	Zoonoses –An overview of global concepts
2	DPH 702	Basic epidemiologic tools in zoonoses
3	DPH 703	Zoonoses with reference to translational strategies, policy, regulations and travel medicine – Global and national perspectives
4	DPH 704	Bioterrorism and zoonotic agents
5	DPH 705	Risk factors and reporting mechanisms
		Second Semester
6	DPH 706	Food and Waterborne Zoonoses
7	DPH 707	Bacterial, Viral and Parasitic Zoonoses
8	DPH 708	Technological advances in diagnosis of zoonotic diseases
9	DPH799	Project

Contact Classes

First Semester – 10 days

Second Semester – 10 days

Course offered by

Department of Veterinary Public Health and Epidemiology,
Madras Veterinary College,
Chennai – 600 007.

9. POSTGRADUATE DIPLOMA IN BOVINE INFERTILITY AND ITS MANAGEMENT (PGDBIM)

Importance and Impact of the course

The production potential of livestock is influenced largely by reproduction. Dairy cattle production requires intensive husbandry care to achieve the goal of one calf a year. Reduced fertility is one of the common reasons for veterinarians being called on to the farm by the cattle owners. The incidence of infertility in cattle due to various causes is about 28-30 per cent which causes a major economic impact on the sustainability of dairy farming. The obstetric practice has progressed over the years and the need to diagnose various reproductive disorders and their management has emerged as specialized area and continuous advancement in the clinical management of infertility is taking place and these are not covered in detail during undergraduate curriculum for the veterinarians.

Eligibility:

Candidates with B.V.Sc./ B.V.Sc. & AH., degree are with VCI state veterinary council registration.
Minimum 3 years of experience in active veterinary clinical practice.

Course Fee

Indian Nationals- INR 10000/-

Foreign Nationals - USD 500-

Duration: one year (Two semesters)

Method of selection

As per TANUVAS academic regulations and rules in force

Course Content

Sl. No	Course No	Course title
	First Semester	
1.	VOG 701	Functional anatomy of female reproductive
2.	VOG 702	Estrous cycle
3.	VOG 703	Folliculogenesis
4.	VOG 704	Ovulation and fertilization
5.	VOG 705	Anestrus
	Second Semester	
6.	VOG 706	Repeat Breeding Syndrome

7.	VOG 707	Controlled Breeding
8.	VOG 708	Diagnostic Procedures for Infertility Investigation
9	VOG 799	Project

Contact classes

First semester-10 days

Second semester-10 days

Course offered by

Department of Animal Reproduction, Gynaecology & Obstetrics
 Madras Veterinary College,
 Chennai-600 007.

10. POSTGRADUATE DIPLOMA IN WILD ANIMAL DISEASE MANAGEMENT (PGDWADM)

Importance and Impact of the course

Conservation of wild animals at global level is being offered high degree of attention, in the recent period and in this regard, wild fauna derive significant focus. Veterinarians employed in many captive wild animal areas like zoos, zoological parks, zoological gardens, reptilian centres, avian centres etc. are continuously demanding for proper enrichment of knowledge on wild animals, especially on wild animal health and disease related features since the undergraduate curriculum for veterinary graduates cover only limited areas on wildlife management.

Moreover, Veterinarians are also frequently encountering various health and treatment aspects related to wild animals in the field. Under this circumstance, the course would provide hindsight to veterinarians to equip themselves to deal with treatment of wild animals.

Eligibility(Minimum)

Candidates with B.V.Sc./ B.V.Sc. & AH., degree are eligible.

Course fee

Indian Nationals: INR 20000/-

Foreign Nationals: USD 2000-

Duration One year (Two semesters)

Method of Selection:

As per prevailing TANUVAS academic regulations and rules in force

Course Content

S.No	Course Code	Title
First Semester		
1.	WLS 701	Wildlife Biology and Management
2.	WLS 702	Capture and Immobilization
3.	WLS 703	Infectious Diseases of Wildlife
4.	WLS 704	Wildlife Pathology
5.	WLS 705	Parasitic Diseases of Wildlife
Second semester		
6.	WLS 706	Wildlife Medicine – Mammals
7.	WLS 707	Wildlife Medicine - Reptiles and Amphibians
8.	WLS 708	Wildlife Medicine – Avifauna
9.	WLS 799	Project work

Contact classes

First semester - 10 days

Second semester - 10 days

Course offered by

Department of Wildlife Science,
Madras Veterinary College,
Chennai-600007

11. POSTGRADUATE DIPLOMA IN VETERINARY CLINICAL LABORATORY DIAGNOSIS (PGDVCLD)

Importance and Impact of the course

Immense progress has occurred in the field of healthcare with the arrival of many sophisticated equipments and novel techniques. These laboratory diagnosis aids are helping a large way today in diagnosis, treatment, and also in providing follow up care for the patients. Knowledge on advanced laboratory techniques will aid the veterinarians to successfully diagnose the ailments in the early stages itself, so as to ameliorate the suffering of animals. In this context, to enable the aspiring veterinary practitioners / graduates to have an expertise, of the latest diagnostic tests in clinical pathology, the course of Post Graduate Diploma in Veterinary Laboratory Diagnosis has been evolved.

The course curriculum includes a comprehensive coverage of all the significant branches like haematology, clinical biochemistry, clinical parasitology, clinical microbiology and diagnostic cytology. The participants will be exposed to processing and interpretation of varied clinical materials received from the day to day hospital cases and would also be trained with the operating procedures of the modern diagnostic equipments.

Eligibility(Minimum):

Candidates with B.V.Sc./ B.V.Sc. & AH., degree are eligible.

Three years experience in the field

Course Fee

Indian Nationals : INR 10,000/-

Foreign Nationals : USD 500-

Duration: One Year (Two Semesters)

Method of selection:

As per TANUVAS academic regulations and rules in force

Course Content

S.No	CODE	COURSE TITLE
First Semester		
1.	VCLD 701	Basic veterinary clinical laboratory techniques
2.	VCLD 702	Clinical sample collection and processing methods
3.	VCLD 703	Clinical pathological diagnostic techniques-I hematology
4.	VCLD 704	Clinical pathological diagnostic techniques- II- urine and other body fluid
5.	VCLD 705	Clinical biochemical diagnostic techniques-I liver, kidney, pancreas, thymus
Second Semester		
6.	VCLD 706	Clinical biochemical diagnostic techniques-II mineral, electrolyte, CVS & GI system
7.	VCLD 707	Biopsy & cytology
8.	VCLD 708	Clinical microbiological techniques
9.	VCLD 709	Clinical parasitological diagnostic techniques
10.	VCLD 710	Advanced laboratory diagnostic techniques

Contact Classes

First Semester - 10 days

Second semester - 10days

Course offered by

Centralised Clinical Laboratory
Madras Veterinary College
Chennai-600 007.

12. POSTGRADUATE DIPLOMA IN VETERINARY ENDOSCOPY

(PGDVEN)

Importance and Impact of the course

Endoscopy has become one of the important diagnostic tools in the veterinary medicine. It provides clues for the diagnosis in most of the cases and serves as therapeutic interventional tool in some cases. Most of the reputed veterinary hospitals in India are equipped with endoscopy. But the veterinarians are not provided with special training in handling and usage of endoscopy for the diagnosis and treatment of diseases in animals, as endoscopy procedure is not covered in the undergraduate syllabus. Added to this many private practitioners already purchased and many practitioners are ready to purchase endoscopy as it assists their diagnosis in many cases. In India special course exclusive on endoscopy is not available till now. Hence the course will fulfil the needs of veterinary practitioners in enhancing their skill on endoscopic techniques for diagnosis of various ailments of animals.

Eligibility (Minimum)

BVSc / BVSc & AH degree

Three years experience in the field

Course fee

Indian Nationals: INR 20,000/-

Foreign Nationals: USD 1000-

Duration: One Year (Two semesters)

Method of Selection:

As per TANUVAS academic regulations and rules in force

Course Content

S.No	CODE	COURSE TITLE
FIRST SEMESTER		
1.	VEN 701	Clinical anatomy for endoscopy
2.	VEN 702	Principles and basics of endoscopy
3.	VEN 703	Gastrointestinal endoscopy – I
4.	VEN 704	Respiratory tract endoscopy

5.	VEN 705	Urogenital endoscopy and avian endoscopy
SECOND SEMESTER		
6.	VEN 706	Gastrointestinal endoscopy – II
7.	VEN 707	Otoscopy, Arthroscopy, thoracoscopy, laparoscopy
8.	VEN 708	Interventional endoscopy and endoscopy in exotic animals
9.	VEN 709	Cytological preparation and analysis
10.	VEN 799	PROJECT WORK

Contact Classes

First Semester - 10 days
Second semester - 10days

Course offered by

Department of Veterinary Clinical Medicine, Ethics,& Jurisprudence
Veterinary College and Research Institute,
Namakkal-637 002.

13. POSTGRADUATE DIPLOMA IN BOVINE PRODUCTION DISEASES (PGDBPD)

Importance and Impact of the course

Production diseases are of major economic concern to dairy farms as they are responsible for most of economic loss to dairy farmers. Among the domestic animals, production diseases assume greatest importance in dairy cows, sheep and goats. Production diseases are of great concern especially in heavy yielders. Production diseases in large animals if not treated properly will result in reduced milk yield and seriously damage the production potential which will lead to heavy loss to the farmers. In this context, the course is designed in such a way that the veterinarians would acquire the essential clinical knowledge and skills that require in quick diagnosis of production diseases in dairy cows and ensure effective treatment. Further, the course would also enlighten about the various ways of controlling production diseases in dairy animals by following efficient management procedures in dairying in the field situations.

Eligibility (Minimum)

Candidates with B.V.Sc./ B.V.Sc. & AH., degree are eligible.

Three years experience in the field.

Course fee structure

Indian Nationals: INR 10,000/-

Foreign Nationals: USD 500-

Duration : One Year (two semesters)

Method of Selection

As per the prevailing TANUVAS academic regulations and rules in force

Course Content

S.No	CODE	COURSE TITLE
	FIRST SEMESTER	
1.	BPD 701	Principles and basics of Production diseases
2.	BPD 702	Disorders of calcium homeostasis
3.	BPD 703	Disorders of magnesium homeostasis
4.	BPD 704	Interaction of electrolytes, minerals and vitamins
5.	BPD 705	Laboratory evaluation of Production diseases
	SECOND SEMESTER	
6.	BPD 706	Disorders of energy metabolism
7.	BPD 707	Disorders of protein metabolism
8.	BPD 708	Disorders of Potassium and Phosphorus homeostasis
9.	BPD 709	Disorders of Vitamin E and Se homeostasis
10.	BPD 799	PROJECT WORK

Contact Classes

First Semester – 10 days

Second Semester - 10days

Course offered by

Department of Veterinary Clinical Medicine, Ethics & Jurisprudence
Veterinary College and Research Institute,
Namakkal- 637 002.

14. POSTGRADUATE DIPLOMA IN FEED MANUFACTURING TECHNOLOGY (PGDFMT)

IMPORTANCE AND IMPACT OF THE COURSE

The dairy, poultry and aquaculture industry are growing rapidly. The poultry industry is growing at the rate of 10% per annum. Livestock, Poultry and aqua feeds produced in Tamil Nadu are approximately 12000 metric tons per day. More than 200 feed mills are located in Namakkal region with a minimum production capacity of 2000 tons of feed per month. The demand for processed feeds is bound to grow in the years to come. The personnel with varying qualifications and skills are operating the feed mills at present by the experience gained over a period of time. The feed mill operations include judicious selection and procurement of raw materials, quality assessment, efficient feed processing, value addition, packing, labeling, storage, transport, marketing and auditing. Each step in this process requires adequate knowledge and skill. Lack of formal training programmes for feed mill operators and non-availability of qualified technical personnel for feed mill management affect not only the feed mill operations but also the availability and quality of feeds. In the last 25 years, various developments in the field of feed manufacturing such as pelleting & crumbling, flaking, block making, mineral mixture preparation etc. have taken place which requires trained man power for the industry. Keeping this in view, the course on “Postgraduate Diploma in Feed Manufacturing Technology” has been designed for the graduates to impart necessary knowledge, skill and management capacity to become entrepreneur or to seek employment in the feed industry. Hands on training will be imparted on feed and feed ingredients – handling and storage, quality assessment of feed ingredients and finished feeds, feed mill operations, premix preparation, processing and conservation of fibre rich feed resources, value added feed products, HACCP law and GMP in feed manufacturing, economics and record maintenance in feed industry etc. Unemployed graduates or those working in government and private sectors and personnel involved in feed mill operations and feed marketing are expected to benefit from this course.

Eligibility (Minimum)

B.V.Sc./B.V.Sc.&AH./B.E (Agri)/ B.Tech (Agri)/ B.F.Sc./ B.Sc. (Life sciences)

Course Fee

Indian Nationals – INR 10,000/-

Foreign Nationals – USD 1000-

Duration: One Year(Two Semesters)

Method of Selection

As per TANUVAS academic regulations and rules in force

Course Content

S.No.	Course No.	Title
First Semester		
1	FMT 701	Feed and feed ingredients storage and
2	FMT 702	Quality assessment of feed ingredients and finished feed
3	FMT 703	Feed mill designing and operation
4	FMT 704	Premix preparation
5	FMT 705	Adulterants, contaminants and anti-nutritional factors in feed ingredients
Second semester		
6	FMT 706	Processing and conservation of fibrous feed resources
7	FMT 707	Value added feed products
8	FMT 708	HACCP, LAW and GMP in feed
9	FMT 709	Record maintenance and economics of feed manufacturing units
10	FMT 799	Project

Contact Classes

First Semester – 10 days

Second Semester – 10 days

Course offered by:

Department of Animal Nutrition,
Veterinary College and Research Institute,
Namakkal – 637 002.

15. POSTGRADUATE DIPLOMA IN COMMERCIAL POULTRY PRODUCTION AND MANAGEMENT(PGDCPPM)

Importance and Impact of the course

Poultry industry in India, especially in Tamil Nadu is growing fast and thus, requires more number of poultry professionals to cater to the industry's need. The production performance of both broiler and layer in India is on par with international standards and hence, it requires more technical knowledge in terms of housing, nutrition and management. At present, the Veterinary Graduates are employed as poultry specialists. However, many veterinarians at middle management level require more knowledge and skills in the area to manage the large size poultry farms. The PGDCPPM qualified candidates will have employment opportunities in poultry sector and also some of them can become entrepreneurs in poultry related activities. In addition, the veterinarians graduated from SAU/SVUs may also acquire additional knowledge in poultry.

Eligibility (Minimum)

Any degree in life sciences from a recognized university.

Course Fee

Indian Nationals –INR 10,000/-

Foreign Nationals – USD 1000-

Duration: One Year (Two Semesters)

Method of Selection

As per TANUVAS academic regulations and rules in force

Course Content

S.No.	Course No.	Title
First Semester		
1	CPP 701	Poultry housing and environment
2	CPP 702	Management of broilers
3	CPP 703	Management of layers
4	CPP 704	Diversified poultry production
5	CPP 705	Poultry nutrition and feeding

	Second Semester	
6	CPP 706	Commercial breeder flock and hatchery management
7	CPP 707	Poultry flock health
8	CPP 708	Poultry egg and meat technology
9	CPP 709	Poultry production economics and marketing of poultry
10	CPP 799	Project

Contact Classes

First Semester – 10 days

Second Semester – 10 days

Course offered by

Department of Poultry Science,
Veterinary College and Research Institute,
Namakkal – 637 002.

16. POSTGRADUATE DIPLOMA IN DIVERSIFIED POULTRY PRODUCTION (PGDDPP)

Importance and Impact of the course

Poultry industry comprises broiler and layer industry, even though backyard rearing of birds is also widely practised in rural areas for long time. Of late, farming with diversified poultry like Japanese quail, turkey, duck, guinea fowl, emu etc., are also gaining popularity especially among small scale entrepreneurs, as broiler and layer farming have become highly capital intensive. Veterinarian's expertise is sought after not only for improving efficiency of production of meat and eggs, but also in planning and farming diversified poultry. They are also often called upon to offer advice on vaccinations and medications, housing and management requirements for diversified poultry and also do post – mortem and carry out disease diagnosis. Even non – veterinary graduates with some exposure to poultry farming practices during their academic programme, need further inputs of specialization on farming with diversified poultry species. This course is designed and introduced to meet their requirements.

Eligibility (Minimum)

Candidates with B.V.Sc. / B.V.Sc. & AH., B.Sc.(Agri), B.Tech.(Food processing Technology / Food Technology) qualification are eligible.

Course Fee

Indian Nationals – INR 10,000/-

Foreign Nationals – USD 1000-

Duration: One Year (Two Semesters)

Method of Selection

As per TANUVAS academic regulations and rules in force

Course Content

S.No.	Course No.	Title
First Semester		
1	DPP 701	Poultry hatchery management
2	DPP 702	Feeds and Feeding Procedures
3	DPP 703	Japanese Quail Production
4	DPP 704	Turkey Production
5	DPP 705	Guinea fowl Production
Second Semester		
6	DPP 706	Ducks and Geese Production
7	DPP 707	Ratite Production
8	DPP 708	Pigeon and pet bird production
9	DPP 709	Processing and further processing of diversified poultry
10	DPP 799	Project

Contact Classes

First Semester – 10 days

Second Semester – 10 days

Course offered by

Department of Poultry Science,
Madras Veterinary College,
Chennai – 600 007.

17. POST GRADUATE DIPLOMA IN ADVANCED REPRODUCTIVE BIOTECHNOLOGY IN ANIMAL MODELS (PGDARB)

Importance and Impact of the course

Assisted reproductive technology (ART), comprised of techniques such as artificial insemination (AI), in vitro fertilization (IVF), embryo transfer (ET) and sperm and embryo cryopreservation, has been promoted over the past 25 years as potential means to positively exploit the superior germ plasm and to conserve threatened animal populations. At present many, if not all, reproduction techniques well established in animal models have been translated to human, some on a practical basis like AI and ET, others on an experimental basis like the embryonic stem cell and cloning technologies. Routine human IVF, emerged from research on animal reproduction that was gained in the nineteenth and twentieth century's when very little was known about human conception. Since its introduction into reproductive medicine in 1978, IVF has been considered as successful method of treating female sterility. Almost one decade later, micromanipulation techniques were first applied successfully to the treatment of male – factor infertility.

In spite of increase in the demand for ART among the public, expertise to handle these techniques was very limited and solely dependent on few technicians. Training the Individuals by updating the knowledge and skills in advanced reproductive techniques is the need of the hour to increase the number of expertise in this field. With easy availability of the resource material at a cheaper cost, animal models serve as suitable alternative to learn the advanced reproductive techniques. The information obtained from animal ART models will be important to implement the techniques on the human for alleviating the rising infertility crisis among the human population.

Eligibility(Minimum)

Candidates with B.V.Sc./B.V.Sc. and AH/MBBS/ M.Sc. Life Sciences or any other relevant disciplines as basic qualifications are eligible to apply.

Course Fee:

Indian Nationals : INR 25000/-

Foreign Nationals : USD 2000-

Duration: One year (Two semesters)

Method of Selection

As per TANUVAS academic regulations and rules in force

Course Content

Sl.No	Course	Course title
Semester I		
01	ARB 701	Applied reproductive anatomy and physiology of farm animal
02	ARB 702	Instrumentation and Basic laboratory techniques in embryo biotechnology
03	ARB 703	Molecular techniques in embryo biotechnology
04	ARB 704	In- vitro production of embryos A. Recovery and quality assessment of oocytes
05	ARB 705	In-vitro production of embryos B. In-vitro maturation, fertilization and culturing of oocytes
Semester II		
06	ARB 706	Micro-assisted fertilization – Intra Cytoplasmic sperm Injection (ICSI)
07	ARB 707	Cryopreservation of oocytes and embryos
08	ARB 708	Biotechnological techniques in evaluation of embryos for transfer to recipients
09	ARB 709	Applications, Governing bodies, Regulations and ethical issues of assisted Reproductive techniques
10	ARB 710	Project

Contact classes

First semester - 10 days

Second semester - 10 days

Course offered by

Department of Animal Biotechnology,
Madras Veterinary College,
Chennai -600 007

18. POSTGRADUATE DIPLOMA IN ACARO-ENTOMOLOGY (PGDAENT)

Importance and Impact of the course

Entomology is a branch of biology which deals with insects and arachnids coming under the phylum arthropoda. Arthropods alone account for 65 per cent of the living things that exist on the earth. Many arthropods help mankind in different ways such as cross pollination, degradation and recycling of plant materials. However, some species do harm to the man and animals either by causing direct injuries or indirectly by involving in the disease transmission, leading to public health problems. A large number of dreadful diseases of man such as Malaria, Dengue, Chikungunya, Filariasis, Kyasanur Forest Disease (KFD), Sleeping sickness and Leishmaniasis are transmitted by various haematophagous insects. The multiplication of these insect pests and their vector potentiality are largely determined by the climatic conditions and human activities. Our tropical climatic conditions coupled with deforestation for human dwellings may definitely enhance the insect breeding. This will lead to outbreak of arthropod borne diseases in man, which will be on the rise in the years to come. Sustainable control of these diseases lies in effective control of arthropod vectors. Under this circumstance, this programme would provide the necessary knowledge update for effective implementation of vector control programme in the field.

Eligibility (Minimum)

Candidates with B.V.Sc./B.V.Sc.&AH /B.Sc.(Zoology/Biotechnology/Microbiology)

Course Fee

Indian Nationals – INR 10000/-

Foreign Nationals- USD500-

Duration: One year (Two semesters)

Method of selection:

As per TANUVAS academic regulations and rules in force

Course Content

S. No.	Course No.	Title
First Semester		
1	ENT 701	Anatomy and Physiology of Insects
2	ENT 702	Bionomics of Insects
3	ENT 703	Insects of medical importance
4	ENT 704	Role of insects as vectors
5	ENT 705	Diagnosis and control of arthropods
Second Semester		
6	ENT 706	Anatomy and Physiology of Arachnids
7	ENT 707	Bionomics of ticks and mites of medical
8	ENT 708	Arachnids as vectors and Pathogens of man
9	ENT 709	Control of arachnids affecting man
10	ENT 799	Project

Contact classes:

First Semester – 10 days
Second Semester-10 days

Course offered by:

Department of Veterinary Parasitology,
Veterinary College & Research Institute,
Namakkal-637 002.

19. POSTGRADUATE DIPLOMA IN DAIRY PROCESSING AND QUALITY ASSURANCE (PGDDPQA)

Importance and Impact of the course

With the introduction of modern technology in the production and processing of dairy products, the concept of milk is shifting towards value added dairy business. The Dairy and Food industries have opened up new avenues for employment and economy. Dairy sector is further expected to grow faster and generate more employment in the near future. One pertinent drawback of the new system is a lack of scientific management due to dearth of middle level professionals. Most of the entrepreneurs would like to dispose the milk as farm fresh or want to establish small processing plants to improve the revenue. Hence to man such units and also to promote personnel's in quality control, a human resource development programme comprising both dairy processing and quality assurance is required urgently to cater to the needs of these groups. Keeping the above in view, a post graduate diploma programme in dairy processing and quality assurance of one year duration is envisaged with the aim to develop human resource for the fast growing food processing sector and provide knowledge & technical competencies to address man power crunch in the emerging issues of processing, product development, food safety, marketing, export & sustainable use of resources.

Eligibility (Minimum)

B.V.Sc. & A.H. /B.Tech (Food Processing Technology/Food Technology/Dairy technology and related courses)/ B.Sc (Dairy Science) / M.Sc (Dairy Science) / B.Sc (Agri) / B.E. (Agri) / B.Tech (Agri) or any other food related disciplines.

Course Fee:

Indian Nationals – INR 10,000/-;

Foreign Nationals - USD 500-

Duration: One year (Two semesters)

Method of selection:

As per TANUVAS academic regulations and rules in force

Course Content

S.No.	Course No.	Title
First Semester		
1	DQA 701	Principles of Dairy Processing
2	DQA 702	Principles of Dairy Microbiology
3	DQA 703	Technology of fat rich dairy products
4	DQA 704	Technology of indigenous dairy products
5	DQA 705	Cleaning, sanitization of dairy equipments and dairy waste disposal
Second Semester		
6	DQA 706	Technology of Ice cream, cheese and dried milk
7	DQA 707	Technology of cultured dairy products
8	DQA 708	Packaging of Dairy products
9	DQA 709	Quality assurance for dairy industry
10	DQA799	Project

Contact classes

First Semester – 10 days

Second Semester-10 days

Course offered by

Department of Dairy Science,
Veterinary College and Research Institute,
Namakkal.637002.

20. POSTGRADUATE DIPLOMA IN POST HARVEST TECHNOLOGY AND QUALITY ASSURANCE OF MEAT AND MEAT PRODUCTS (PGDQAMP)

Importance and Impact of the course

The Indian meat industry has not taken its due share in spite of big potential. The major constraints for the meat industry are unorganised nature of meat production and marketing, socio-economic taboos associated with meat eating, inadequate infrastructure facilities and poor post-harvest management. The situation is further compounded by insistence of domestic consumers to buy freshly cut meat from the wet market, rather than processed or frozen. Poultry meat for domestic consumption comes from unorganised/unregistered premises/meat shops. The volume sold in wet markets in India is one of the highest among Asian countries. Hence the existing wet marketing system has to be gradually shifted to bring about frozen meat marketing, post harvest technology and value addition of meat. The meat processing sector in India has to go a long way to catch-up with some developing countries which have modernized and expanded their processing sector to emerge as major exporters of processed meat products to developed and high economy developing countries. In India, the focus is now beginning to shift to processed meat products where consumption has grown substantially. With all the above mentioned features, now we are in the state of increasing the yield of meat per animal and to satisfy the requirements of World Trade Organization regime pertaining to Sanitary and Phyto-Sanitary measures (SPS). Under this circumstance, the course will offer the required knowledge on post harvest hygienic techniques and value addition methods for marketing of meat products.

Eligibility (Minimum)

Candidates with B.V.Sc/B.V.Sc.& A.H.degree

Bachelor's Degree in Food Science/ Food Technology / Life sciences

Course Fee

Indian Nationals - INR 10,000/-

Foreign Nationals – USD 500-

Duration: One year (Two semesters)

Method of selection:

As per TANUVAS academic regulations and rules in force

Course Content

S.No.	Course No.	Title
	First Semester	
1	MST 701	Food animals and meat hygiene
2	MST 702	Abattoir practices and management
3	MST 703	Slaughterhouse by-products utilization
4	MST 704	Meat borne illnesses
5	MST 705	Meat Production economics and marketing
	Second Semester	
6	MST 706	Fresh meat processing
7	MST 707	Value addition of meat products
8	MST 708	Meat preservation and packaging
9	MST 709	Meat and meat products quality control and assurance
10	MST 799	Project

Contact classes

First Semester – 10 days

Second Semester-10 days

Course offered by

Department of Meat Science and Technology,
Madras Veterinary College,
Chennai-7.

21. POSTGRADUATE DIPLOMA IN PARTICIPATORY RURAL

APPRAISAL (PGDPRA)

Importance and Impact of the course

Participatory Rural Appraisal (PRA) enables us to know everything about the specific geographic area - be it village, hamlet or panchayat in relation to one's own profession. PRA is flexible, low cost and time saving, set or family of approaches and methods used to enable the rural people to collect and analyze information in terms of the past, present and future situations to understand about rural people and the conditions existing in rural areas which would provide a thorough and comprehensive idea regarding problems, potentials, resources and solutions to formulate realistic development programmes by the villagers, themselves, but facilitated by PRA practitioners, feasible to achieve within a specific period of time by the villagers. The course will make the participants to understand the various techniques of PRA and impart the skills of using PRA techniques in actual field situations.

Eligibility (Minimum)

Graduates with B.VSc/B.VSc and AH, B.Sc (Agri.), B.Sc., (Hort.), B.Sc., (Home Science), B.Sc. (Sericulture), B.Sc. (Forestry), B.E., (Agri. Engineering), B.Sc., (Diary Science), B.Sc., (Rural Development) degree and MSW with specialization in rural development are eligible to apply.

Course Fee

Indian Nationals: INR 10000/-

Foreign Nationals: USD 500-

Duration: One year (Two Semesters)

Method of SELECTION

As per TANUVAS academic regulations and rules in force

COURSE STRUCTURE

Sl.No	Course	Course Title
First Semester		
1.	EXT 900	Origin of PRA
2.	EXT 901	Fundamental of PRA
3.	EXT 902	PRA Transects
4.	EXT 903	PRA Maps
5.	EXT 904	Diagrams of PRA
Second Semester		
6.	EXT 905	PRA Ranking
7.	EXT 906	PRA Analysis
8.	EXT 907	Problem Tree
9	EXT 908	Action Plan Preparation and SWOT analysis
10.	EXT 911	Project Work I
11.	EXT 912	Project Work II

Contact Classes

First Semester-10 days

Second Semester-10 days

Course offered by

Department of Veterinary & Animal Husbandry Extension and Entrepreneurship

Madras Veterinary College

Chennai – 600007.
