



DEPARTMENT OF VETERINARY MEDICINE

About Department

The department is committed to excellence in education, clinical practice, and research in the field of Veterinary Medicine, in accordance with MSVE 2016 guidelines. Its initial priority is to establish the minimum standards for undergraduate teaching by developing adequate infrastructure facilities and laboratory instruments. At present, the department functions under the Veterinary Clinical Complex and is actively engaged in extension activities, including organizing and participating in health camps for both large and small animals, conducting disease investigations and diagnostic work, and contributing to research on various animal diseases and disorders.

Faculty Details

	Name:	Dr. Vijaykumar L Parmar (Additional responsibility)
	Designation:	Associate Professor & Head
	Qualification:	Ph. D.
	Experience:	10 Years
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Summary of Publications

Sr. No.	Detail	Numbers
1.	Research Paper (National Journal)	37
2.	Research Paper (International Journal)	11
3.	Short Communications	-
4.	Recommendations	07
5.	Book/ Booklets	04
6.	Chapters in Books	-
7.	Training Manual / Practical Manual	14
8.	Technical Bulletins	-
9.	Review articles in scientific journals	01
10.	Popular articles in vernacular languages	21
11.	Informative leaflets / folders for farmers	-

Awards

Sr. No.	Details	Number of Awards
1.	National	02
2.	International	-
3.	Scientific Society/Body/Agency Awards for best paper presentation	04
4.	Scientific Society Awards for best poster presentation	04
5.	Best article award	-
6.	Best Thesis Award	-
7.	Best Teachers award	-

8.	Others	-
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Details of Awards

Sr. No.	Name of Award	Name of Awardee	Year	Instituted by
1.	Young Scientist Award	Dr. V. L. Parmar	2024	SVSBT
2.	Best Poster Presentation Award	Dr. V. L. Parmar	2024	VIPM
3.	Best Poster Presentation Award	Dr. V. L. Parmar	2022	VIPM
4.	Best Oral Paper Presentation award	Dr. V. L. Parmar	2024	AAS
5.	Best Oral Paper Presentation award	Dr. V. L. Parmar	2022	VIPM

Achievements

1.	Dr. V. L. Parmar received Two Young Scientist Awards for his research works in Tropical Theileriosis in Gir Cattle and Ultrasonographic findings of Diaphragmatic Hernia in Buffalo respectively during XI Annual Convention of SVSBT & National conference organised by College of Veterinary Science, Proddatur, Andhra Pradesh during 23 rd - 25 th October, 2024.
2.	Dr. V. L. Parmar has undertaken extensive clinical work in diagnostic abdominal ultrasonography for the detection of major bovine diseases such as Traumatic Reticuloperitonitis, Traumatic Pericarditis, Diaphragmatic Hernia, Reticular Abscess, Omsal impaction, Intestinal diseases <i>etc.</i>

UG Academics

UG Course (As per VCI MSVE 2016 course curriculum)

Sr. No.	Course offered in Fourth Professional Year	Credits Hours
1	Veterinary Medicine	4 + 1

UG Syllabus – Fourth Professional year

Theory

Unit	Contents
Unit 1	General History and scope of Veterinary Medicine, concept of animal diseases. Concepts of diagnosis, differential diagnosis, treatment and prognosis, General systemic states, hyperthermia, hypothermia, fever, septicemia, toxemia, shock, allergy, anaphylaxis, oedema, coma, anaemia, common clinical poisonings and dehydration. Estimates of diseases, patterns of disease, disease monitoring and surveillance, herd health and quarantine.
Unit 2	Systemic diseases Etiology, clinical manifestations, diagnosis, differential diagnosis, treatment, prevention and control of the following diseases of cattle, buffalo, sheep, goat, horse, pig, dog, cat and poultry: Diseases of digestive, respiratory, cardiovascular, urinary, nervous, musculoskeletal, haemopoietic, and lymphatic systems, skin, sense organs including affections of peritoneum, liver and pancreas. Emergency medicine and critical care.
Unit 3	Metabolic and deficiency disorders Diagnosis and management of diseases caused by deficiency of iron, copper, cobalt, zinc, manganese, selenium, calcium, phosphorus, magnesium, iodine, vitamin A, D, E, B complex, K and C. Diseases of neonates. Alternative or integrated or ethnoveterinary medicine in animal disease management. Aetiology, clinical manifestations, diagnosis, differential diagnosis,

	treatment prevention and control of metabolic or production and endocrine diseases of cattle, buffalo, sheep, goat, horse, pig, dog, cat and poultry i.e. Milk fever, eclampsia, osteodystrophy fibrosa, lactation tetany, downer cow syndrome, ketosis, fat cow syndrome, hypomagnesaemia, hypothyroidism, Cushing syndrome, Addison's disease and Gout. Nutritional haemoglobinuria, azoturia, diabetes.
Unit 4	Zoo and wild animal medicine Principles of zoo hygiene, public health problems arising from zoos. Prevention, control and treatment of infectious, parasitic, nutritional and metabolic diseases in zoo and wild animals including exotic herds. Acts and Rules related to zoo and wild animals. National and international organizations and institutions interlinked to wild and zoo animals' role and functioning
Unit 5	Bacterial, fungal and rickettsial diseases Aetiology, epidemiology, clinical manifestations, diagnosis, treatment, prevention and control of bacterial, fungal and rickettsial diseases of livestock: mastitis, hemorrhagic septicaemia, brucellosis, tuberculosis, Johne's disease, listeriosis, leptospirosis, campylobacteriosis, actinomycosis, actinobacillosis, bordetellosis, glanders, strangles, ulcerative lymphangitis, colibacillosis, fowl typhoid, pullorum disease, fowl cholera, avian mycoplasmosis, spirochaetosis, salmonellosis, swine erysipelas, contagious caprine pleuropneumonia, contagious bovine pleuropneumonia, anthrax. clostridial infections, ehrlichiosis, chlamydiosis. Q fever, anaplasmosis, dermatophilosis, aspergillosis, candidiasis, histoplasmosis, sporotrichosis, coccidioidomycosis, mycotoxicosis and rhinosporidiosis.
Unit 6	Viral and parasitic diseases Aetiology, epidemiology, clinical manifestations, diagnosis, treatment, prevention and control of viral and parasitic diseases of diseases of cattle, buffalo, sheep, goat, horse, pig. dog, cat and poultry: Foot and mouth disease, rinderpest, bovine viral diarrhoea, malignant catarrhal fever, infectious bovine rhinotracheitis, ephemeral fever, blue tongue, sheep pox, goat pox, PPR, classical swine fever, rabies, equine influenza, equine infectious anemia, equine rhinopneumonitis, canine distemper, infectious canine hepatitis, canine parvoviral disease, corona viral infection, adeno virus infection, feline rhinotracheitis, feline pan leukopenia, feline infectious peritonitis, avian influenza. New Castle disease. Marck's. disease, avian leucosis, infectious bronchitis, infectious laryngotenscheitis, avian encephalomyelitis, chicken virus, fowl pox, infectious bursal disease, chicken infectious anemia, inclusion body hepatitis-hydropericardium syndrome, emerging and exotic viral diseases of global importance. Parasitic diseases: Trematodes, cestodes, nematodes, protozoan infections and external parasites of clinical importance.
Unit 7	Jurisprudence, ethics, and animal welfare Legal duties of veterinarians, laws related to medicine, evidence, common offences against animals and laws related to these offences. Examination of living and dead animals in criminal cases. Cruelty to animals and bestiality. Legal aspects of. Examination of animals for soundness, examination of injuries and post-mortem examination. Causes of sudden death in animals. Collection and despatch of materials for chemical examination, detection of frauds-doping, alternation of description, bishoping etc. Cattle slaughter and evidence procedure in courts. Provincial and Central Acts relating to animals. Glanders and Farcy Act 1899 (13 of 1899), Dourine Act 1910 (5 of 1910), Laws relating to offences affecting Public Health. Laws relating to poisons and adulteration of drugs, Livestock importation act, liability and insurance. Code of conduct and ethics for veterinarians the regulations made under the Act. Animal welfare organizations and its role in animal welfare, welfare assessment, behaviour and animal welfare, principles and philosophy of animal welfare, animal welfare ethics, improving animal welfare through legislation and incentives, assessment of physiological, behavioural, disease and production measures of animal welfare, assessing welfare in practice, environment enrichment, euthanasia, welfare of animals used in education and research and transportation, religion and animal welfare, human and animal welfare conflict, veterinary disaster management, human-animal interactions, economics and animal welfare and veterinarians as animal welfare educators.

Practical

Unit	Contents
Unit 1	General Collection of history and general clinical examination. Collection, preservation, packing and dispatch of samples from clinical cases. Nasogastric and orogastric intubation in animals. Oxygen therapy in veterinary practice. Gastric and peritoneal lavage. Collection and examination of cerebrospinal fluid. Blood transfusion
Unit 2	Systemic diseases Special examination of cardiovascular system. Examination of urinary system. Special examination of respiratory system. Special examination of gastrointestinal system, ECG, Echocardiography. Ultrasonography. Endoscopy. Special examination of sense organs. Examination of eye and ear. Collection and examination of peritoneal fluid. Peritonea dialysis. Neurological examination in animals. Lymph node biopsy and bone marrow aspirate. Methods of medication. Disease Estimation.
Unit 3	Zoo and wild animal medicine Handling Management and restraint of zoo and exotic animals. Drug delivery in zoo and wild animals. Visit to Zoo or Sanctuary. Examination of veterolegal cases.
Unit 4	Bacterial, fungal and rickettsial diseases TB, JD and Mallein testing in animal. Brucellosis testing in animals. Physical and chemical tests for detection of mastitis. Application of molecular and serology techniques on clinical samples for disease diagnosis. Pen-side diagnostic tests for infectious diseases. Practical approaches to disease outbreak investigation and its control.
Unit 5	Viral and parasitic diseases Collection and examination of skin scrapings- Parasitic, fungal, bacterial. Examination of blood for parasites. Dark field microscopy. Application of Molecular and serological techniques on clinical samples for diagnosis of viral and parasitic diseases.

Syllabus Distribution for Annual Board Examination:

Examination	PAPERS	UNITS	MAXIMUM MARKS	WEIGHTAGE
Internal Assessment	First	30 % (Unit 1 and 2)	40	10
	Second	60 % (Unit 3 and 4)	40	10
	Third	90 % (Unit 5, 6 and 7)	40	10
Annual Board	THEORY			
	Paper-I	Unit 1,2,3 and 4	100	20
	Paper-II	Unit 5, 6 and 7	100	20
	PRACTICAL			
	Paper-I	Unit 1, 2 and 3	60	20
	Paper – II	Unit 4 and 5	60	20

PG Academic

Summary of PG student:

Sr. No.	Details	No. of Students passed out	No. of Students presently enrolled
1.	Master	-	-
2.	Doctorate	-	-
3.	Total	-	-

To be started in next academic year (2026-27)

PG Courses

Sr. No.	Course Code	Title of Course	Credit Hours
1	VMD 501	Ruminant Medicine-internal	3+0
2	VMD 502	Ruminant Medicine-infectious	3+0
3	VMD 503	Equine Medicine	2+0
4	VMD 504	Canine and Feline Medicine-I	2+0
5	VMD 505	Canine and Feline Medicine-II	2+0
6	VMD 506	Metabolic and Endocrine Diseases, Nutritional Deficiencies and Diseases of Mammary Gland	2+0
7	VMD 507	Paediatrics and Geriatrics	2+0
8	VMD 508	Avian and Swine Medicine	2+0
9	VMD 509	Zoo, Wild and Laboratory Animal Medicine	1+0
10	VMD 510	Toxicology and Forensic Medicine	1+0
11	VMD 511	Clinical Diagnostic Techniques	0+2
12	VMD 512	Emergency Medicine	0+2
13	VMD 513	Diagnosis of Veterinary Infectious Diseases	0+1
14	VMD 514	Oncology and Ethno-veterinary Medicine	1+0
15	VMD 515	Animal Disease Investigation and Biosecurity	1+1
16	VMD 516	Clinical Practice-I	0+3
17	VMD 517	Clinical Practice-II	0+3
18	VMD 591	Master's Seminar	1+0
19	VMD 599	Master's Research	0+30

Ph. D. Courses

Sr. No.	Course Code	Title of Course	Credit Hours
1	VMD 601	Farm Animal Gastroenterology	2+0
2	VMD 602	Farm Animal Cardiopulmonary and Urinary System Diseases	2+0
3	VMD 603	Farm Animal Neurological and Musculo-skeletal System Diseases	1+0
4	VMD 604	Farm Animal Neonatology	1+0
5	VMD 605	Herd Health Management	2+1
6	VMD 606	Canine and Feline Gastroenterology	2+0
7	VMD 607	Advances in Neurological and Musculoskeletal System Diseases of Canine and Feline	1+0
8	VMD 608	Canine and Feline Cardiopulmonary and Urinary System Diseases	1+0
9	VMD 609	Dermatology and Endocrinology	1+0
10	VMD 610	Canine and Feline Eye and Ear Diseases	1+0
11	VMD 611	Veterinary Diagnostics	0+2
12	VMD 612	Metabolic and Nutritional Deficiency Diseases	2+0
13	VMD 613	Emergency and Critical Care Medicine	1+1
14	VMD 614	Emerging and Re-emerging Animal Diseases	2+0
15	VMD 615	Prevention and Control of Infectious Diseases of Ruminants	2+0
16	VMD 616	Clinical Practice - I	0+2
17	VMD 617	Clinical Practice - II	0+2

18	VMD 618	Clinical Practice - III	0+2
19	VMD 691	Doctoral Seminar I	1+0
20	VMD 692	Doctoral Seminar II	1+0
21	VMD 699	Doctoral Research	0+75

PG Examination Patterns

Sr. No.	Examination	Theory	Practical
1	Self-study (Assignment/ Presentation)	20	-
2	Internal tests:- First Test Mid Term Test	10 20	- 50
3	Semester End Examination	50	50
	Total Marks	100	100

Research Area of the Department

• Diagnostic abdominal ultrasonography in bovine and canine.
• Hemoprotzoan diseases of small and large animals.
• Canine dermatology.
• Metabolic disorders of large animals.
• Mastitis in dairy animals.
• Ethnomedicine.

Advanced Instrumentation Facilities

Sr. No.	Name of Instruments

Contact details

Dr. V. L. Parmar

Associate Professor & Head

Department of Veterinary Medicine

College of Veterinary Science and Animal Husbandry

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