



**Department of Veterinary Microbiology**  
**College of Veterinary Science and Animal Husbandry**  
**Kamdhenu University, Himmatnagar**

**About the Department:**

The Department of Veterinary Microbiology was established since the inception of College of Veterinary Science and Animal Husbandry, Kamdhenu University, Rajpur (Nava), Himmatnagar in the year 2019. The Veterinary Microbiology department is engaged in the teaching, research and extension activities. The diagnostic services being provided for various bacterial, viral and fungal diseases of animals and birds to the clinician and, animal and poultry farmer's around the Himmatnagar regions. The department undertakes time-bound research projects based on the various disease problems in the animals and poultry. The Department has the facilities for work on bacteriology, virology, immunology and mycology related works.

**Research Area**

1. Incidence, diagnosis and characterization of different bacterial, fungal and viral pathogens from domesticated animals and birds.
2. Molecular based detection of major pathogens of animals and poultry.
3. Isolation, characterization and antibiotic resistant profile of mastitis causing pathogens.
4. Antimicrobial resistance in bacteria isolated from animals and poultry by phenotypic, and molecular methods.

**Publications by the faculties/department**

**Total No. of Publications: 120**

- National journals : 61
- International journals : 27
- Extensions / popular articles : 07
- Abstracts : 48
- Review articles : 06
- Book/Chapters : 7
- Sequences published : 05

**Courses offered by the Department:**

**A. UG Courses**

Sr. No.	Name of Course	Credits
	Subject: <b>Veterinary Microbiology</b>	
1	Unit 1 : General and Systematic Veterinary Bacteriology	3+2
2	Unit 2 : Veterinary Mycology	
3	Unit 3 :Microbial Biotechnology	
4	Unit 4 : Veterinary Immunology and Serology	
5	Unit 5 : General and Systematic Veterinary Virology	

**B. PG Courses**

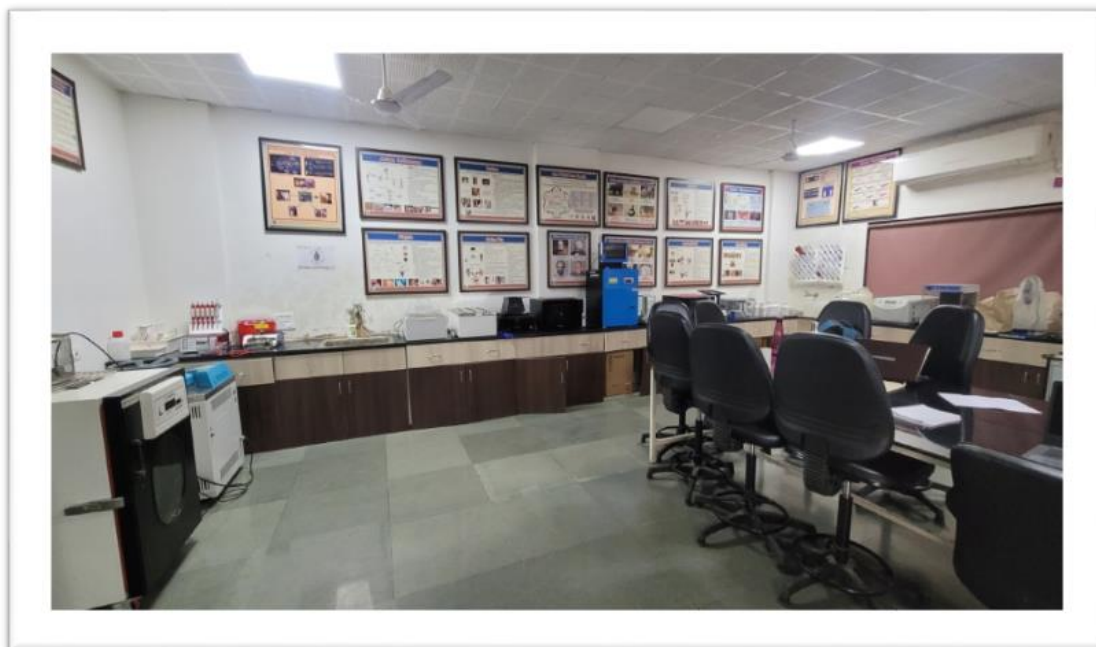
Sr. No.	Name of Course	Course No.	Credits
	<b>Masters Degree Programme</b>		
1.	General Bacteriology	VMC 501	2+1
2.	Systematic Veterinary Bacteriology	VMC 502	(2+1)
3.	General Virology	VMC 503	(2+1)
4.	Systematic Veterinary Virology	VMC 504	(2+1)
5.	Principles of Veterinary Immunology	VMC 505	(2+1)
6.	Veterinary Mycology	VMC 506	(1+1)
7.	Vaccinology	VMC 507	(2+0)
8.	Techniques In Microbiology	VMC 508	(0+2)
9.	Techniques In Molecular Microbiology	VMC 509	(1+2)
10.	Molecular Immunology	VMC 510	(1+1)
11.	Mucosal Immunology	VMC 511	(1+0)
12.	Introduction to Microbial Bioinformatics	VMC 512	(1+0)
	<b>Doctoral Degree Programme</b>		
1.	Advances in Veterinary Mycology	VMC 601	(2+1)
2.	Advances in Veterinary Mycology	VMC 602	(2+1)
3.	Bacterial Genetics	VMC 603	(2+0)
4.	Microbial Toxins	VMC 604	(2+1)
5.	Bacterial Pathogenesis	VMC 605	(2+0)
6.	Advances in Veterinary Virology	VMC 606	(2+1)
7.	Molecular Viral Pathogenesis	VMC 607	(2+1)
8.	Structure Function Relationship of DNA and RNA Viruses	VMC 608	(2+0)
9.	Slow Viral Infections and Prions	VMC 610	(1+0)
10.	Advances in Veterinary Immunology	VMC 611	(2+1)
11.	Cytokines and Chemokines	VMC 612	(2+0)
12.	Immunoregulation	VMC 613	(1+0)
13.	Advances in Vaccinology	VMC 614	(2+0)
14.	Current Topics in Infection and Immunity	VMC 615	(2+0)

**LIST OF INSTRUMENTS**

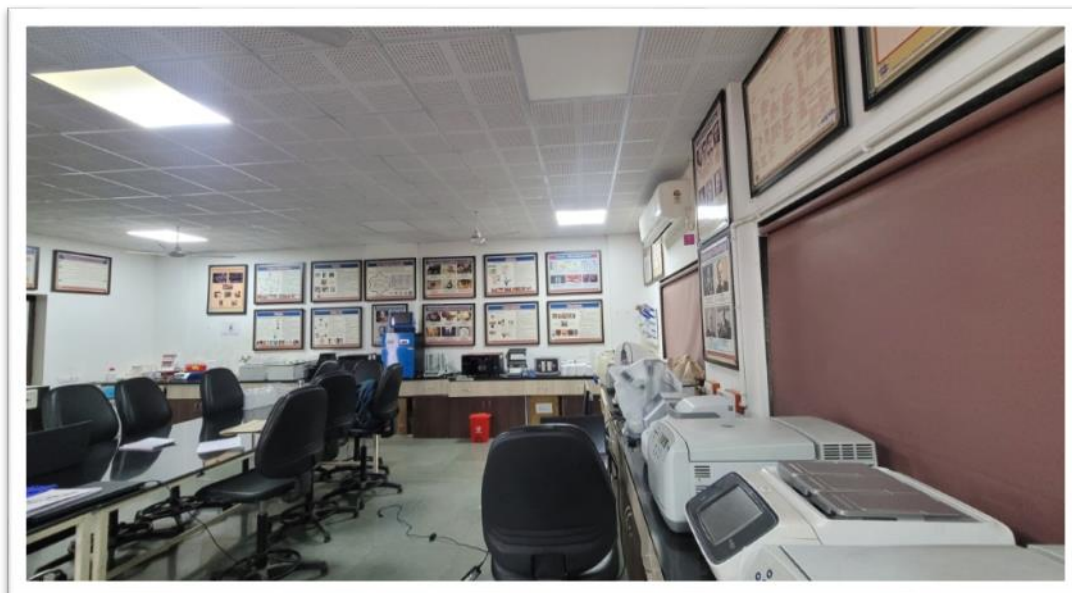
1.	Autoclave
2.	Hot-air Oven
3.	Students Microscopes with light source
4.	Stage and ocular micrometer
5.	Mc'intosh and fields's anaerobic jar
6.	Incubator
7.	Biological Oxygen Demand Incubator
8.	Water bath
9.	Deep-freeze 20°C
10.	Laminar flow cabinet
11.	Colony counter
12.	Centrifuge ordinary
13.	High-speed centrifuge
14.	Refrigerated centrifuge
15.	Egg candler
16.	Egg Incubator
17.	Refrigerator

18.	Weighing balance
19.	Magnetic stirrer
20.	Agarose gel electrophoresis unit with power supply
21.	polyacrylamide gel electrophoresis unit with power supply
22.	Thermocycler with UPS

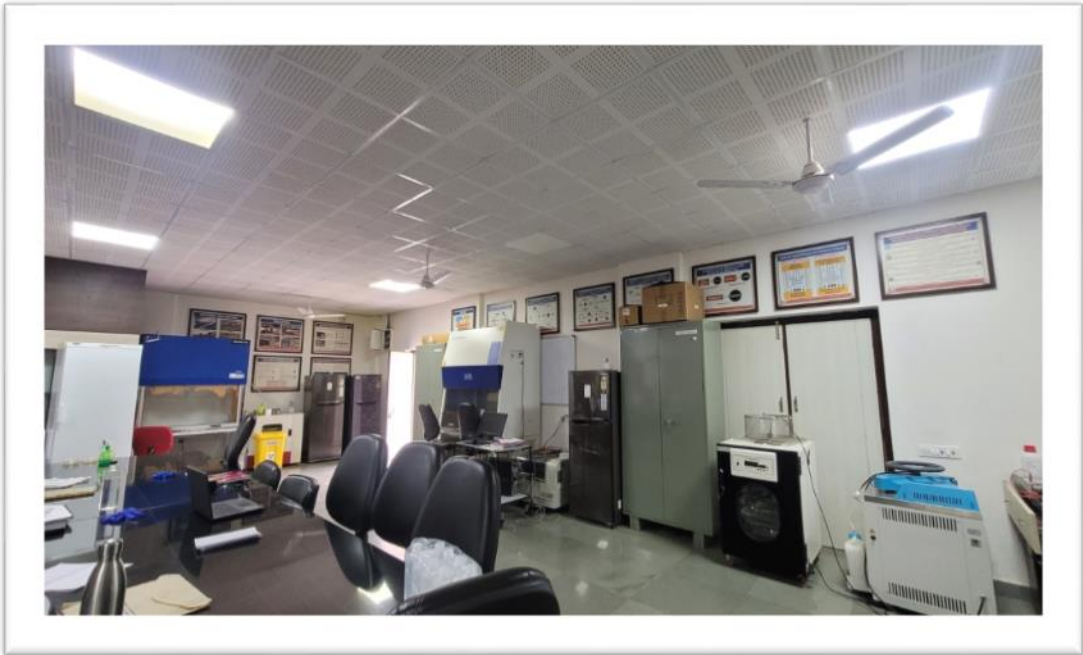
### Laboratory Facilities



**MICROBIOLOGY LABORATORY**



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