

# DEPARTMENT OF VETERINARY PUBLIC HEALTH AND EPIDEMIOLOGY



College of Veterinary Science and Animal Husbandry  
Acharya Narendra Deva University of Agriculture  
and Technology, Kumarganj, Ayodhya-224229

## ABOUT THE DEPARTMENT

**Department of Veterinary Public Health** came into existence in year 2002 after intake of the first batch of B.V.Sc & A.H. students in year 2000 and teaching of B V Sc & AH courses was started as per the Indian Veterinary Council Act – 1984, regulation entitled “*The Veterinary council of India (Minimum standards of veterinary education) – degree course (B.V.Sc. and A.H.) Regulation – 1993*”. The department was merged with Department of Preventive medicine & Epidemiology in 2009 after the implementation of revised Gazette of *Veterinary council of India* and renamed as **Department of Veterinary Public & Epidemiology**. The postgraduate degree (**M.V. Sc.** ) and Ph.D. in Veterinary Public Health & Epidemiology were started in year 2009 and 2010 , respectively.

## OBJECTIVE

- ❖ To impart knowledge in the domain of public health viz., food hygiene, zoonotic diseases and environmental hygiene to undergraduate students.
- ❖ To impart theoretical, practical, and applied knowledge, training, and research to postgraduates.
- ❖ To support community service programs within the scope of Veterinary Public Health.
- ❖ Promoting multisectoral and transdisciplinary collaboration among veterinarians, human health researchers, and other experts to contribute significantly advancing the principles of "One Health."

## VISION

- ❖ To impart knowledge in the domain of food hygiene, environmental hygiene, zoonotic diseases and one health to protect and promote public health through understanding and application of veterinary sciences.

## MISSION

- ❖ To provide theoretical and practical knowledge to the student, and capacity building in laboratory and field through training and professional education and to contribute substantially towards "One Health" by collaborating with veterinarians, human health professionals and other professionals.

## FACULTY PROFILE

1. Dr. Namita Joshi, M.V.Sc. & Ph.D., Head and Professor, VPH&E  
Contact no: +91 7571828007; Email: namitajoshivet@gmail.com
2. Dr. Chandra Shekhar, M.V.Sc. & Ph.D., Professor, VPH&E  
Contact no: +91 9452489959; Email: cshekharvph@gmail.com
3. Dr. Asha Kumari Verma, M.V.Sc. & Ph.D., Assistant Professor, VPH&E  
Contact no: +91 7869014567; Email: ashav223@gmail.com

## COURSE CURRICULUM

The Department of Veterinary Public Health & Epidemiology embraces excellence in modern teaching and facilitates higher education at bachelor's, master's, and doctorate levels. As per MSVE, 2016 B.V.Sc. & A.H. curriculum is divided into 4 units:

- ❖ Unit-1: Veterinary Public Health and Food Safety
- ❖ Unit-2: Veterinary Epidemiology
- ❖ Unit-3: Zoonotic Diseases
- ❖ Unit-4: Environmental Hygiene

### Postgraduate courses (M.V.Sc.)

Course No.	Title of course	Credit Hrs.
VPE 501	Concepts in Veterinary Public Health and One Health	(2+0)
VPE 502	Zoonoses – I	(2+1)
VPE 503	Zoonoses – II	(2+1)
VPE 504	Principles of Epidemiology	(2+1)
VPE 505	Hygiene and Safety of Foods of Animal and Aquatic Origin	(2+1)
VPE 506	Food-borne Infections and Intoxications	(2+1)
VPE 507	Food Safety Standards, and Regulations	(2+1)
VPE 508	Environmental Hygiene and Safety	(2+1)
VPE 509	Applied Epidemiology	(2+1)
VPE 510	Bio-security, Bioterrorism and Disaster Management	(2+0)
VPE 511	Laboratory Techniques in Veterinary Public Health	(0+3)

## Ph.D. courses

Course No.	Title of course	Credit Hrs.
VPE 601	Advances in Veterinary Public Health and Epidemiology	(2+1)
VPE 602	Emerging, Re-emerging Zoonoses and One Health	(2+1)
VPE 603	Advances in Food Safety and Quality Control of Foods of Animal Aquatic origin	(2+1)
VPE 604	Bio-security and Occupational Health Safety	(2+1)
VPE 605	Recent Concepts in Epidemiology and Disease Forecasting	(2+1)
VPE 606	Risk Analysis and Predictive Modelling	(2+1)
VPE 607	Advances in Environmental Hygiene	(2+1)
VPE 608	Herd Health Management and Disease Economics	(2+1)
VPE 609	Epidemiology of Trans-boundary, Non-infectious and Chronic diseases	(2+1)
VPE 610	Ecology and Animal/ Human Health	(2+0)
VPE 611	Diagnostic Approaches in Epidemiology	(2+1)
VPE 612	Surveys, Surveillance and Data Management	(2+1)

### **INTERDISCIPLINARY COURSES**

The students have the opportunity to select from wide range of elective courses to augment their education with additional skills, expertise, and knowledge.

- ❖ PGS-502 Technical Writing and Communication.
- ❖ PGS-506 Disaster Management.
- ❖ VPE 602 Emerging, Re-emerging Zoonoses and One Health.

### **VALUE ADDED COURSES**

The department offers following value added courses to undergraduates and postgraduates' students of any stream under the university.

- ❖ Quality assurance of milk and milk products.
- ❖ Common zoonotic disease and isolation and identification of their pathogens.

### **RESEARCH AREA**

- ❖ Food Hygiene
- ❖ Zoonoses
- ❖ AMR bacteria
- ❖ Environmental Hygiene

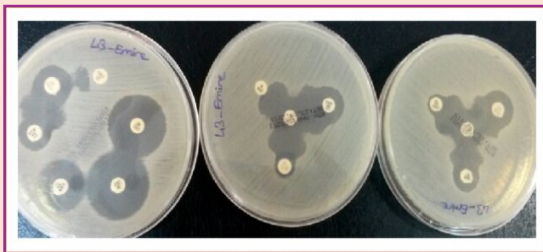
## RESEARCH INFRASTRUCTURE

The department is well equipped with the instruments required for the undergraduate and postgraduates teaching and research. Three laboratories have been established by the department i.e., Milk Hygiene Lab, Meat Hygiene Lab, and Zoonoses & Veterinary Epidemiology Lab.

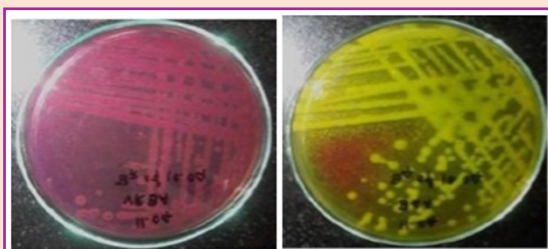


## MAJOR RESEARCH WORK

- ❖ Prevalence of antimicrobial resistance (AMR) bacteria in food, water, and environment.
- ❖ Prevalence of extended-spectrum beta lactamases (ESBLs) producing *enterobacteria* in humans, animals, and food of animal origin.
- ❖ Molecular detection of zoonotic *Archobacter* spp. from animals, animal products and their associated environment.
- ❖ Physio-chemical and microbiological analysis of the water samples.



Antibiogram image of ESBL- producing *E. coli* isolate



Coliform and fecal coliform confirmation test streaked on VRBA and BGA agar, respectively

## EXTENSION ACTIVITIES

The department organizes various awareness campaigns in nearby villages and schools.

- ❖ World Environment Day
- ❖ World Zoonoses Day
- ❖ World Rabies Day
- ❖ Antimicrobial resistance (AMR)



## SOCIAL ACTIVITIES

The department regularly organizes blood donation camp, free health camp, cleanliness and plantation drive in campus, nearby villages, and schools

