

DEPARTMENT OF VETERINARY PUBLIC HEALTH AND EPIDEMIOLOGY
SHOURABH COLLEGE OF VETERINARY SCIENCE

Kheda, Hindaun City, Karauli

LECTURE SCHEDULE – THEORY

Third Professional B.V.Sc. & A.H.

Credit Hrs. (3+1)

w.e.f. 02/12/2024

Theory

Lecture Duration: One hour

Name of Teachers: Dr. Pradeep Kumar, Dr. Nivedita Khiriya and Dr. Meenu Saini

UNIT-1 (Veterinary Public Health and Food Safety)

Sr. No.	Date	Topics
1	02-12-2024	Aims and scope of Veterinary Public Health.
2	03-12-2024	Role of veterinarians in public health.
3	04-12-2024	One Health concept and initiatives.
4	09-12-2024	Veterinary Public Health Administration.
5	10-12-2024	Sources of contamination. Principles and concepts of food hygiene and safety.
6	11-12-2024	Milk hygiene in relation to public health.
7	16-12-2024	Hygienic and safe milk production practices, including steps for prevention and control of milk contamination, adulterants, antimicrobial residues, agrochemicals, subclinical mastitis, or udder infections.
8	17-12-2024	Microbial flora of milk and milk products.
9	18-12-2024	Milk plant and dairy equipment hygiene. Quality control of milk and milk products
10	23-12-2024	Milk hygiene practices in India and other countries.
11	24-12-2024	Elements of meat inspection and meat hygiene practices.
12	30-12-2024	Pathological conditions associated with the transport of food animals.
13	31-12-2024	Hygiene in abattoirs and meat plants.
14	06-01-2025	Detection of conditions or diseases and judgments during ante mortem and post mortem inspection.
15	07-01-2025	Examination of lymph nodes.
16	08-01-2025	Meat as a source of disease transmission. Sources of contamination of meat and methods of carcass decontamination.
17	13-01-2025	Sources of contamination of meat and methods of carcass decontamination.
18	15-01-2025	Speciation of meat.
19	20-01-2025	Animal welfare and public health issues.
20	21-01-2025	Classification of low-risk and high-risk material generated in an abattoir and its hygienic disposal. Inspection of poultry for human consumption.
21	22-01-2025	Inspection of poultry for human consumption.
22	27-01-2025	Occupational health hazards in abattoirs and meat plants.

23	28-01-2025	Foodborne infections and intoxications associated with foods of animal origin.
24	29-01-2025	Toxic residues (pesticides, antibiotics, metals and hormones) in foods and associated health hazards.
25	03-02-2025	Types of biohazards.
26	05-02-2025	Hazard analysis and critical control points (HACCP) system.
27	10-02-2025	Importance of ISO 9000 and 14000 series in meat industry.
28	11-02-2025	Risk analysis, assessment and management.
29	12-02-2025	International food safety standards: World Organisation for Animal Health (OIE),
30	17-02-2025	World Trade Organization (WTO) agreements and Codex Alimentarius Commission.
31	18-02-2025	Sanitary and phytosanitary measures in relation to foods of animal origin.
32	19-02-2025	Food Safety and Standards Act and Regulations.
33	24-02-2025	Role of Food Safety and Standards Authority of India (FSSAI), Bureau of Indian Standards (BIS) and other national agencies.

UNIT-2 (Veterinary Epidemiology)

Sr. No.	Date	Lecture Schedule
34	25-02-2025	Definitions, components and aims of epidemiology.
35	3-03-2025	Factors influencing occurrence of livestock diseases and animal production. Determinants of disease.
36	04-03-2025	Transmission and maintenance of infections.
37	05-03-2025	Ecology of disease.
38	10-03-2025	Measures and patterns of disease occurrence.
39	11-03-2025	Survey and surveillance of animal diseases and related parameters.
40	12-03-2025	Epidemiological methods- Descriptive, analytical, experimental, theoretical, serological and molecular.
41	17-03-2025	Animal disease forecasting. Strategies of disease management: prevention, control and biosecurity.
42	18-03-2025	Economics of animal diseases.
43	19-03-2025	National and international regulations on livestock diseases.
44	24-03-2025	Role of OIE and laws on international trade of animals and animal products.

UNIT-3 (Zoonotic Diseases)

Sr. No.	Date	Lecture Schedule
45	25-03-2025	Definition, history and socio-economic impact of zoonotic diseases.

46	26-03-2025	Classification of zoonoses and approaches to their management. Multisectoral approach for zoonoses prevention and control.
47	01-04-2025	Emerging, re-emerging and occupational zoonoses.
48	02-04-2025	Role of domestic, wild, pet and laboratory animals and birds in transmission of zoonoses.
49	07-04-2025	Zoonotic pathogens as agents of bioterrorism.
50	08-04-2025	Epidemiology, clinical manifestations and management of the following zoonoses: Rabies
51	09-04-2025	Japanese encephalitis
52	15-04-2025	Influenza
53	16-04-2025	Kyasanur forest disease
54	21-04-2025	Crimean Congo haemorrhagic fever
55	22-04-2025	Nipah encephalitis
56	23-04-2025	Ebola virus infection
57	28-04-2025	Anthrax, brucellosis
58	30-04-2025	Tuberculosis, leptospirosis
59	05-05-2025	Listeriosis
60	06-05-2025	Plague
61	07-05-2025	Glanders
62	12-05-2025	Q fever
63	13-05-2025	Rickettsiosis
64	14-05-2025	Chlamydiosis
65	19-05-2025	Taeniasis
66	20-05-2025	Cysticercosis
67	24-05-2025	Hydatidosis
68	26-05-2025	Larva migrans
69	27-05-2025	Diphyllobothriasis
70	28-05-2025	Trichinellosis
71	02-06-2025	Toxoplasmosis
72	02-06-2025	Fasciolosis
73	04-06-2025	Paragonimiasis
74	09-06-2025	Sarcocystosis
75	10-06-2025	Cryptosporidiosis
76	11-06-2025	Amoebiasis
77	16-06-2025	Giardiasis
78	17-06-2025	Leishmaniasis
79	18-06-2025	Superficial and systemic mycosis and prion diseases.
80	23-06-2025	Foodborne bacterial zoonoses: salmonellosis
81	24-06-2025	E. coli infection
82	25-06-2025	Staphylococcal gastroenteritis
83	30-06-2025	Clostridial food poisoning
84	01-07-2025	Campylobacteriosis

Unit-4 (Environmental Hygiene)

Sr. No.	Date	Topics
85	02-07-2025	Scope and importance. Ecosystem: Components structure and functions.

86	07-07-2025	Biodiversity: uses, threats and conservation. Natural resources: types, uses and abuses.
87	08-07-2025	Environmental contaminants in food chain – bioaccumulation, biomagnification and persistent organic pollutants.
88	09-07-2025	Environmental pollution: Sources, nature of pollutants, effects on animal and human health.
89	14-07-2025	Rural and urban pollution. Air pollution, sources and hazard.
90	15-07-2025	Air pollution in animal houses, effect on health and productivity
91	16-07-2025	Airborne diseases – Classification, health hazard, prevention and control
92	21-07-2025	Water – Sources, contamination & their prevention.
93	21-07-2025	Water qualities – Physical, chemical, bacteriological and radiological
94	22-07-2025	Water purification methods for community water supplies
95	23-07-2025	Waterborne diseases – Classification, health hazard, prevention and control.
96	28-07-2025	Soil, marine and thermal pollution – Classification, sources, hazard, prevention and control.
97	30-07-2025	Noise pollution – Sources, hazards, prevention and control.
98	04-08-2025	Nuclear hazards or radiological hazard – Types, hazards and radiation protection.
99	05-08-2025	National rules and legislations related to environmental pollution and role of pollution control board in India.
100	06-08-2025	Biosafety: Importance, classification and biosafety measures for prevention of risk hazards.
101	11-08-2025	Disaster management and mitigation
102	12-08-2025	Solid and liquid waste management at farms and biomedical waste management.
103	13-08-2025	Sanitation and disinfection of farm and hospital environment in veterinary public practice for infection control.
104	18-08-2025	Global warming and greenhouse effect – Definition, greenhouse gases, impact of climate change and international treaties or protocols.
105	19-08-2025	Management of waste from animal industries. Stray and fallen animal management and carcass disposal. Vector and reservoir control.
106	20-08-2025	Revision class.
107	25-08-2025	Revision class.
108	26-08-2025	Revision class.
109	27-08-2025	Revision class.
110	1-09-2025	Revision class.
111	3-09-2025	Revision class.

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LECTURE SCHEDULE – PRACTICAL

Third Professional B.V.Sc. & A.H.

Credit Hrs. (3+1)

w.e.f. 02/12/2024

Practical

Lecture Duration: Two hours

Name of Teachers: Dr. Pradeep Kumar, Dr. Nivedita Khiriya and Dr. Meenu Saini,

UNIT-1

(Veterinary Public Health and Food Safety)

Sr. No	Date	Topics
1	Batch-C-2.12.2024 Batch-A-3.12.2024 Batch-B-4.12.2024	Collection of samples for chemical and bacteriological examination.
2	Batch-C-9.12.2024 Batch-A-10.12.2024 Batch-B-11.12.2024	Grading of milk by dye reduction test, direct microscopic examination and standard plate count.
3	Batch-C-16.12.2024 Batch-A-17.12.2024 Batch-B-18.12.2024	Quality assurance tests for processed milk and milk products.
4	Batch-C-23.12.2024 Batch-A-24.12.2024 Batch-B-1.01.2025	Tests for plant sanitation-Air, water and equipment.
5	Batch-C-30.12.2024 Batch-A-31.12.2024 Batch-B-8.01.2025	Microbiological examination of raw milk, pasteurized milk, milk products, meat, meat products
6	Batch-C-13.01.2025 Batch-A-14.01.2025 Batch-B-15.01.2025	eggs-standard plate count,
7	Batch-C-20.01.2025 Batch-A-21.01.2025 Batch-B-22.01.2025	coliform count,
8	Batch-C-27.01.2025 Batch-A-28.01.2025 Batch-B-29.01.2025	enterococcal count,
9	Batch-C-3.02.2025 Batch-A-4.02.2025 Batch-B-5.02.2025	psychrophilic and psychrotrophic.
10	Batch-C-10.02.2025 Batch-A-11.02.2025 Batch-B-12.02.2025	organisms, thermophilic bacteria and yeast and mold count.
11	Batch-C-17.02.2025 Batch-A-18.02.2025 Batch-B-19.02.2025	Detection of organisms of public health significance from food products by techniques.
12	Batch-C-24.02.2025	Tests for detection of mastitic milk.

	Batch-A-25.02.2025 Batch-B-5.03.2025	
13	Batch-C-3.03.2025 Batch-A-4.03.2025 Batch-B-12.03.2025	Ante-mortem and post-mortem inspection of food animals. Demonstration or detection of toxic chemicals and contaminants of public significance from milk and meat.
14	Batch-C-10.03.2025 Batch-A-11.03.2025 Batch-B-19.03.2025	Detection of antimicrobial residues in milk and meat by microbiological and analytical techniques.
15	Batch-C-17.03.2025 Batch-A-18.03.2025 Batch-B-26.03.2025	Demonstration of speciation of meat.

UNIT-2
(Veterinary Epidemiology)

Sr. No	Date	Topics
16	Batch-C-24.03.2025 Batch-A-25.03.2025 Batch-B- 2.04.2025	Sampling methods for epidemiological studies.
17	Batch-C-7.04.2025 Batch-A-8.04.2025 Batch-B-9.04.2025	Measurement of disease frequencies. Sources, storage, retrieval and representation of disease information and data.
18	Batch-C-14.04.2025 Batch-A-15.04.2025 Batch-B-16.04.2025	Demonstration of selected software programs or models.
19	Batch-C-21.04.2025 Batch-A-22.04.2025 Batch-B-23.04.2025	Evaluation of sensitivity and specificity of diagnostic tests by epidemiological methods.
20	Batch-C-28.04.2025 Batch-A-29.04.2025 Batch-B-30.04.2025	Determination of associations of disease and hypothesized causal factors.
21	Batch-C-5.05.2025 Batch-A-6.05.2025 Batch-B-7.05.2025	Survey of an animal disease on a farm.
22	Batch-C-19.05.2025 Batch-A-13.05.2025 Batch-B-14.05.2025	Epidemiological investigation of disease outbreaks.

UNIT-3
(Zoonotic Diseases)

Sr. No	Date	Topics
23	Batch-C-26.05.2025 Batch-A-20.05.2025 Batch-B-21.05.2025	Detection, isolation and identification of important pathogens of zoonotic importance from animal, human and environmental sources including foods of animal origin.

24	Batch-C-2.06.2025 Batch-A-27.05.2025 Batch-B-28.05.2025	Detection of zoonotic diseases by serological, molecular and hypersensitivity tests.
25	Batch-C-9.06.2025 Batch-A-3.06.2025 Batch-B-4.06.2025	Study of probable association of human diseases conditions with animal diseases present in an area.
26	Batch-C-16.06.2025 Batch-A-10.06.2025 Batch-B-11.06.2025	Study of rural environment and health status of rural community.

UNIT-4
(Environmental Hygiene)

Sr. No	Date	Topics
27	Batch-C-23.06.2025 Batch-A-17.06.2025 Batch-B-18.06.2025	Sampling methods for testing quality of air, water, soil and other environmental sources.
28	Batch-C-30.06.2025 Batch-A-24.06.2025 Batch-B-25.06.2025	Physical, chemical and microbiological examination of water.
29	Batch-C-7.07.2025 Batch-A-1.07.2025 Batch-B-2.07.2025	Estimation of residual chlorine and chlorine demand. Isolation & identification of pathogens from air, water and other environmental sources.
30	Batch-C-14.07.2025 Batch-A-8.07.2025 Batch-B-9.07.2025	Disinfection of animal houses.
31	Batch-C-21.07.2025 Batch-A-15.07.2025 Batch-B-16.07.2025	Determination of efficacy of disinfectants – Phenol coefficient, MIC and MBC.
32	Batch-C-28.07.2025 Batch-A-22.07.2025 Batch-B-23.07.2025	Demonstration or visit to water purification system.
33	Batch-C-4.08.2025 Batch-A-29.07.2025 Batch-B-30.07.2025	Demonstration of various ventilation systems in animal houses and specialized laboratories.
34	Batch-C-11.08.2025 Batch-A-5.08.2025 Batch-B-6.08.2025	Demonstration of toxic residues in water and other environmental sources.
35	Batch-C-18.08.2025 Batch-A-12.08.2025 Batch-B-13.08.2025	Visit to local polluted site and documentation of local environmental problems – like dumping grounds, local slum areas, crowded localities, etc.

