DEPARTMENT OF VETERINARY PUBLIC HEALTH & EPIDEMIOLOGY M J F COLLEGE OF VETERINARY & ANIMAL SCIENCE CHOMU, JAIPUR

Tentative Course Outline for Theory (Session: 2021-22)

Teaching Programme (MSVE-2016)

Course No: VPE (III^{rd} YearB.V.Sc. &A.H.) Credit Hrs. (3+1)

Course Title: VETERINARY PUBLIC HEALTH & EPIDEMIOLOGY

Duration of Lecture Class:25-08-2021 to 08-07-2022

Sr. No.	Topic	Hrs	Date
	Unit-1 VETERINARY PUBLIC HEALTH AND FOOD SAFETY		
1.	Aims and scope of Veterinary Public Health	1	25-8-2021
2.	Role of veterinarians in public health. One Health concept and initiatives	1	26-8-2021
3.	Veterinary Public Health administration. Sources of contamination	1	27-8-2021
4.	Principles and concepts of food hygiene and safety	1	2-09-2021
5.	Milk hygiene in relation to public health	1	3-9-2021
6.	Hygienic and safe milk production practices including steps for prevention and control of milk contamination, adulterants, antimicrobial residues, agrochemicals, subclinical mastitisorudder infectionsetc.	3	8-9-2021 9-9-2021 15-9-2021
7.	Microbial flora of milk and milk products	2	16-9-2021 17-9-2021
8.	Milk plant and dairy equipment hygiene	2	22-9-2021 23-9-2021
9.	Quality control of milk and milk products. Milk hygiene practices in India and other countries	2	24-9-2021 29-9-2021
10.	Elements of meat inspection and meat hygiene practices. Pathological conditions associated with the transport of food animals	1	30-9-2021
11.	Hygiene in abattoirs and meat plants	1	1-10-2021
12.	Detection of conditionsor diseases and judgements	2	6-10-2021
	during ante mortem and post mortem inspection		8-10-2021
13.	Examination of lymph nodes	1	21-10-2021
14.	Meat as a source of disease transmission. Sources of contamination of meat and methods of carcass decontamination	2	22-10-2021 27-10-2021

15.	Speciation of meat. Animal welfare and public health	1	28-10-2021
	issues		
16.	Classification of low risk and high risk material	2	29-10-2021
	generated in an abattoir and its hygienic disposal.		3-11-2021
17.	Inspection of poultry for human consumption.	2	11-11-2021
	Occupational health hazards in abattoir and meat plants		12-11-2021
18.	Foodborne infections and intoxications associated with	2	17-11-2021
	foods of animal origin		18-11-2021
19.	Toxic residues (pesticides, antibiotics, metals and	1	25-11-2021
	hormones) in foods and associated health hazards.		
	Types of biohazards		
20.	Hazard analysis and critical control points (HACCP)	2	26-11-2021
	system		1-12-2021
21.	Importance of ISO 9000 and 14000 series in meat	1	2-12-2021
	industry. Risk analysis, assessment and management		
22.	International food safety standards	2	3-12-2021
23.	Food Safety and Standards Act and Regulations. Role	2	8-12-2021
	of Food Safety and Standards Authority of India		9-12-2021
	(FSSAI		
24.	Bureau of Indian Standards (BIS) and other national	1	10-12-2021
	agencies		
	Unit-2 Veterinary epidemiology		
25.	Definitions, components and aims of epidemiology	2	15-12-2021
	Determinants of disease		16-12-2021
26.	Factors influencing occurrence of livestock diseases	1	17-12-2021
25	and animal production		22 12 2021
27.	Determinants of disease	1	22-12-2021
28.	Transmission and maintenance of infections	1	23-12-2021
29.	Ecology of disease. Measures and patterns of disease	1	29-12-2021
20	occurrence		20.12.2021
30.	Survey and surveillance of animal diseases and related	2	30-12-2021
21	parameters Evidencial and Description and description		31-12-2021
31.	Epidemiological methods- Descriptive, analytical,	3	5-1-2022
	experimental, theoretical, serological and molecular		6-1-2022
22	Animal diagona foregoning	1	7-1-2022
32.	Animal disease forecasting Strategies of disease managements prevention control	$\frac{1}{1}$	12-1-2022
33.	Strategies of disease management: prevention, control and biosecurity	1	19-1-2022
34.	Economics of animal diseases. National and	2	20-1-2022
	international regulations on livestock diseases		21-1-2022
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35.	Role of OIE and laws on international trade of animals	2	27-1-2022
33.	and animal products	2	28-1-2022
	Unit- 3 Zoonotic disease		20-1-2022
36.	Definition, history and socio-economic impact of	2	2-2-2022
50.	zoonotic diseases	2	3-2-2022
37.	Classification of zoonoses and approaches to their	3	4-2-2022
57.	management. Multisectoral approach for zoonoses	5	9-2-2022
	prevention and control		10-2-2022
38.	Emerging, re-emerging and occupational zoonoses	1	17-2-2022
39.	Role of domestic, wild, pet and laboratory animals and	2	18-2-2022
	birds in transmission of zoonoses	_	23-2-2022
40.	Zoonotic pathogens as agents of bioterrorism.	1	24-2-2022
41.	Epidemiology, clinical manifestations and	2	25-2-2022
•	management of the following zoonoses(cont from	_	2-3-2022
	40 to 46): Rabies, Japanese encephalitis		
42.	influenza, Kyasanur forest disease	2	3-3-2022
	, J		4-3-2022
43.	Crimean Congo haemorrhagic fever, Nipah	2	9-3-2022
	encephalitis, Ebola virus infection		10-3-2022
44.	Anthrax, brucellosis	1	11-3-2022
45.	Tuberculosis, leptospirosis, listeriosis, plague, glanders	2	16-3-2022
			23-3-2022
46.	Q fever, rickettsiosis, chlamydiosis	1	24-3-2022
47.	Taeniasis, cysticercosis, hydatidosis, larva migrans,	2	25-3-2022
	diphyllobothriasis, trichinellosis, toxoplasmosis,		30-3-2022
48.	Fasciolosis, paragonimiasis, sarcocystosis,	2	31-3-2022
	cryptosporidiosis, amoebiasis, giardiasis,		1-4-2022
	leishmaniasis, superficial and systemic mycosis and		
	prion diseases		
49.	Foodborne bacterial zoonoses: salmonellosis, E. coli	2	6-4-2022
	infection, staphylococcal gastroenteritis, clostridial		7-4-2022
	food poisoning, campylobacteriosisetc		
	Unit-4 (Environmental hygiene)		
50.	Scope and importance	2	8-4-2022
			13-4-2022
51.	Ecosystem: Components structure and functions	2	20-4-2022
			21-4-2022
52.	Biodiversity: uses, threats and conservation	1	22-4-2022
53.	Natural resources: types, uses and abuses	1	27-4-2022
54.	Environmental contaminants in food chain-	2	28-4-2022
	bioaccumulation, biomagnification and persistent		4-5-2022
	organic pollutants		

55.	Environmental pollution: Sources, nature of pollutants,	3	5-5-2022
	effects on animal and human health. Rural and urban		6-5-2022
	pollution		11-5-2022
56.	Air pollution, sources and hazard. Air pollution in	2	12-5-2022
	animal houses, effect on health and productivity		13-5-2022
57.	Airborne diseases - Classification, health hazard,	2	18-5-2022
	prevention and control		19-5-2022
58.	Water-Sources, contamination & their prevention.	2	20-5-2022
	Water qualities- Physical, chemical, bacteriological		25-5-2022
	and radiological		
59.	Water purification methods for community water	2	26-5-2022
	supplies		27-5-2022
60.	Waterborne diseases – Classification, health hazard,	1	1-6-2022
	prevention and control		
61.	Soil, marine and thermal pollution- Classification,	2	2-6-2022
	sources, hazard, prevention and control		3-6-2022
62.	Noise pollution – Sources, hazards, prevention and	1	8-6-2022
	control. Nuclear hazardsor radiological hazard-Types,		
	hazards and radiation protection		
63.	National rules and legislations related to environmental	2	9-6-2022
	pollution and role of pollution control board in India		10-6-2022
64.	Biosafety: Importance, classification and biosafety	1	15-6-2022
	measures for prevention of risk hazards		
65.	Disaster management and mitigation	2	16-6-2022
			17-6-2022
66.	Solid and liquid waste management at farms and	2	22-6-2022
	biomedical waste management		23-6-2022
67.	Sanitation and disinfection of farm and hospital	2	24-6-2022
	environment in veterinary public practice for infection		29-6-2022
	control		
68.	Global warming and greenhouse effect- Definition,	2	30-6-2022
	greenhouse gases, impact of climate change and		1-7-2022
	international treaties or protocols		
69.	Management of waste from animal industries	2	6-7-2022
			7-7-2022
70.	Stray and fallen animal management and carcass	1	8-7-2022
	disposal. Vector and reservoir control		

Head of Department

DEPARTMENT OF VETERINARY PUBLIC HEALTH & EPIDEMIOLOGY

M J F COLLEGE OF VETERINARY & ANIMAL SCIENCE CHOMU, JAIPUR

Tentative Course Outline for Practical (Session: 2021-22)

Teaching Programme (MSVE-2016)

LECTURE SCHEDULE (PRACTICAL)

VPE (3+1) IIIrdYearB.V.Sc. &A.H.

S.No	Name of Practical	Hrs	Day	
1.	COLLECTION OF THE MILK SAMPLES FOR CHEMICAL	2	25-8-2021	
	AND BACTERIOLOGICAL EXAMINATION			
	GRADING OF MILK ON THE BASIS OF METHYLELE BLUE			
	REDUCTION TEST (MBR TEST)			
2.	BACTERIOLOGICAL EXAMINTION OF RAW MILK &	2	1-9-2021	
	PASTEURISED MILK			
3.	STANDARD PLATE COUNT TEST	2	8-9-2021	
4.	PRESUMPTIVE COLIFORM TEST	2	15-9-2021	
5.	FAECAL STREPTOCOCCI COUNT	2	22-9-2021	
6.	PSYCHROPHILIC COUNT	2	29-9-2021	
7.	DETECTION OF ADULTERATION IN MILK	2	6-10-2021	
8.	DETECTION OF ADULTERATION IN GHEE	2	27-10-2021	
	SYNTHETIC MILK			
9.	ISOLATION & IDENTIFICATIONS OF PATHOGENIC	2	3-11-2021	
	BACTERIA OF PUBLIC HEALTH SIGNIFICANCE FROM			
	MILK & MILK PRODUCTS			
10.	TEST FOR DETECTION OF MASTITIC MILK- Indirect test for	2	17-11-2021	
	detection of sub-clinical mastitis in a dairy herd			
11.	ANTE MORTEM INSPECTION OF FOOD ANIMALS	2	1-12-2021	
12.	POST MORTEM INSPECTION OF FOOD ANIMALS	2	8-12-2021	
13.	DIFFERENTIATION OF MEAT OF DIFFERENT SPECIES	2	15-12-2021	
	MICROBIOLOGICAL EXAMINATION OF MEAT			
14.	COLLECTION OF EPIDEMIOLOGICAL SAMPLE	2	22-12-2021	
15.	MEASUREMENT OF DISEASE IN POPULATION &	2	29-12-2021	
	DETERMINATION OF MORBIDITY AND MORTALITY			
	RATES AND RATIO			
16.	SOURCES AND COLLECTION OF EPIDEMIOLOGICAL DATA	2	5-1-2022	
17.	DIFFERENT MODES OF DISPLAYING THE	2	12-1-2022	
	EPIDEMIOLOGICAL DATA			

	DEMOSTRATION OF SELECTED SOFTWARE PROGRAM MODELS/EPIZOO HANDI STATUS ADMASS & EPITRAK, EPIZOO		
18.	EVALUATION OF SENSITIVITY AND SPECIFICITY OF DIAGNOSTIC TESTS BY EPIDEMIOLOGICAL METHODS	2	19-1-2022
19.	FIELD SURVEY OF ZOONOTIC DISEASES ON A FARM	2	2-2-2022
20.	EPIDEMIOLOGICAL INVESTIGATION OF AN OUTBREAK	2	9-2-2022
21.	DETERMINATION OF ASSOCIATIONS OF DISEASE AND HYPOTHESIZED CAUSAL FACTORS	2	23-2-2022
22.	ISOLATION AND IDENTIFICATION OF IMPORTANT PATHOGENS OF ZOONOTIC IMPORTANCE	2	2-3-2022
23.	DETECTION OF ZOONOTIC DISEASE BY SEROLOGICAL, MOLECULAR AND HYPERSENSITIVITY TESTS	2	9-3-2022
24.	STUDY OF ENVIRONMENT AND HEALTH STATUS OF RURAL COMMUNITY	2	16-3-2022
25.	SAMPLING OF WATER FOR SANITARY EXAMINATION SAMPLING OF WATER FOR BACTERIOLOGICAL & CHEMICAL EXAMINATION	2	23-3-2022
26.	PHYSICAL EXAMINATION OF WATER QUALITATIVE CHEMICAL EXAMINATION OF WATER (METALLIC & NON METALLIC)	2	30-3-2022
27.	ESTIMATION OF TOTAL HARDNESS ESTIMATION OF TOTAL SOLIDS IN WATER	2	6-4-2022
28.	PATHOGENIC MICROBES IN WATER	2	13-4-2022
29.	ESTIMATION OF RESIDUAL CHLORINE AND CHLORINE DEMAND	2	20-4-2022
30.	SAMPLING OF AIR FOR SANITARY EXAMINATION ISOLATION AND IDENTIFICATION OF PATHOGENS IN AIR / BACTERIA OF AIR	2	27-4-2022
31.	SAMPLING METHODS FOR TESTING QUALITY OF SOIL	2	4-5-2022
32.	ISOLATION AND IDENTIFICATION OF PATHOGENS FROM ENVIRONMENTAL SOURCES	2	11-5-2022
33.	DISINFECTION OF ANIMAL HOUSES DETERMINATION OF EFFICACY OF DISINFECTANTS- PHENOL COEFFICIENT, MIC AND MBC	2	18-5-2022
34.	DEMONSTRATION OF WATER PURIFICATION PLANT	2	25-5-2022
35.	DEMONSTRATION OF VARIOUS VENTILATION SYSTEMS IN ANIMAL HOUSES AND SPECIALIZED LABS	2	1-6-2022
36.	DEMONSTRATION OF TOXIC RESIDUES IN WATER AND OTHER ENVIRONMENTAL SOURCES	2	22-7-2021

37.	VISIT	TO	LOCAL	POLLUTE	D SITE	AND	2	22-7-2021
	DOCUM	ENTAT	ION OF	LOCAL	ENVIRONM	ENTAL		
	PROBLE							
	CROWD	ED LO	CALITIES ET	C.				