SEMESTER - V

MILK AND MEAT HYGIENE, FOOD SAFETY AND PUBLIC HEALTH

VPE-311 Credit Hours 2+1=3

THEORY


PRACTICAL

Sanitary collection of samples for chemical and bacteriological examination. Grading of milk by MBR test. Test for pasteurization and plant sanitation. Microbiological examination of raw and pasteurized milk, milk products and water. Standard plate, coliform, faecal streptococcal,

Visit to abattoirs, meat processing plants, marketing centers and food service establishments. Ante-mortem and post mortem inspection of food animals. Methods of slaughter (demonstration at the slaughter houses). Demonstration of speciation of meat. Physical and bacteriological quality of meat and aquatic foods (fish). Demonstration of toxic chemical and microbiological residues in milk and meat

**SEMESTER -VI**

**VETERINARY EPIDEMIOLOGY AND ZOONOSES**

VPE- 321 Credit Hours 2+1 =3

**THEORY**


Definition, history and socio-economic impact of zoonotic diseases. Classification of zoonoses and approaches to their management. New, emerging, re-emerging and occupational zoonoses. Role of domestic, wild, pet and laboratory animals and birds in transmission of zoonoses. Zoonotic pathogens as agents of bio-terrorism. Reservoirs, clinical manifestations in animals and humans, and the management of the following zoonoses: rabies, Japanese encephalitis, Kyasanur forest disease, influenza, anthrax, brucellosis, tuberculosis, leptospirosis, listeriosis, plague, rickettsiosis, chlamydiosis and
dermatophytosis. Food borne zoonoses: salmonellosis, staphylococcosis, clostridial food poisoning, campylobacteriosis, helmintrrosis.toxoplasmosis and sarcocystosis. Veterinary Public Health Administration.

**PRACTICAL**


Field survey of zoonotic diseases. Concurrent isolation and identification of important pathogens of zoonotic importance from animal and human sources including foods of animal origin and their interpretation. Study of rural environment and health status of rural community. Visit to primary health centre/human hospital and study of the common diseases affecting rural/urban population, and probable relationships of these human disease conditions with animal diseases present in the area.

**SEMESTER- IX**

**ENVIRONMENT AND ENVIRONMENTAL HYGIENE**

**VPE-511 Credit Hours 2+1=3**

**THEORY**


PRACTICAL


REFERENCE BOOKS

1. Text book of Preventive and Social Medicine - K.Park

2. Dairy Microbiology - Anandakrishnan C.P., Singh R.B and Padmanabhan P.N

3. Fundamentals of Dairy Microbiology - Prajapathy, J B

4. The technology of food preservation- Norman W. D., and James N.D

5. Environmental Pollution: Impact of technology on Quality of life- Ray,M.

6. Environmental Hazards and Human Health- Richard B.Philp

7. Wilsons’ Practical Meat Inspection- Wilson W.G
8. Food Microbiology - Frazier V. and Westhoff D.C.,


10. Food safety-Contaminants and Toxins- D’Mello J.P.F

11. Methods of Analysis and Analysis- James P.L. and Je.

12. Review of Parasitic Zoonosis- Parija S.C

13. Industrial Hygiene Evaluation Methods- Bise S and James P.K.


15. Infectious Waste Management-A practical guide.-Garvin M. L.


17. Veterinary Preventive Medicine- White E.C. and Jardan FTW

18. A textbook of Preventive Medicine- Chakrabarti.A

19. Meat Hygiene - Gracy, Collins and Huey

20. Meat Hygiene - Joshi.B.P


23. Poultry Meat Hygiene and Inspection - Bremner.A and Jhonston M

24. Diseases of Animals Transmissible to Man- Thapliyal D.C.

25. Zoonoses - Mahendra Pal


28. Zoonoses: Infectious diseases Transmitted from Animals to Human Being Krauss H

29. Dogs Zoonoses and Public Health- Calum N.L., Macpharson, Fracois,X., Moslin and Wandeler,A.

30. CRC handbook series in Zoonoses- Steele J.L.

31. Zoonoses - Palmer, Soulsby and Simpson

32. Applied Dairy Microbiology- Marth.E.H. and Steele J.L.

33. Modern Food Microbiology- Jay. M.J

34. Handbook of milk Microbiology- Srivatava.M.L.

35. Basic Food Microbiology- Banwart.G.J.

36. Industrial Microbiology- Prescott and Ponn

37. Urban Health Research in Developing Countries- Atkigson.S., Sangsore,J and Werns,E.

38. Safety Evaluation of Environmental Chemicals- Dikshith, T.S.S.

39. Influence and Removal of Organics in Drinking Water- Mallevilla,Suffet and Chan

40. Manual of Aquatic Sediment Sampling.- Murdoch,A Asane J.M.

41. Text book of Medical Parasitology- Parija S.C.

42. Worms and Human Disease- Muller

43. Food Borne Pathogens - Varnem and Evans

44. Gradwohls’ Clinical Lab Methods and Diagnosis- Sonnenwirth and Jarett
45. Fish Disease and Disorders – Viral Bacterial and Fungal Infections. Wro and Bruno

46. Epidemiology, Diagnosis and Management of Zoonoses  Narayan K.G.

47. Outline of Dairy Technology- Sukumar De


50. Veterinary Epidemiology- Thrushfield. M.

51. Fundamentals of Animal Hygiene and Epidemiology * Thapliyal D.C.

52. Communicable disease Epidemiology and Control- Webber,R.

53. Veterinary Epidemiology-Principles and Methods * Willeberg,M.

54. Medical Parasitology- Parija S.C.


56. Practical Medical Microbiology * Mackie and Mc.Cartney

57. Helminthes, Arthropods and Protozoa of Domesticated Animals- Soulsby.J.L.

(* indicates books which can be used for undergraduate reference)