DEPARTMENT OF VETERINARY PARASITOLOGY

SHOURABH COLLEGE OF VETERINARY SCIENCE

KHEDA, HINDAUN CITY, RAJASTHAN

LECTURE SCHEDULE: THEORY

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

VETERINARY PARASITOLOGY

Credit Hours: 3+2 **w.e.f. 02-12-2024** **Theory**

Lecture Duration: One hour

Name of teachers: Dr. Gatchanda Shravan Kumar, Dr. Sourabh Singh and Dr. Daya Shanker

Sr. No.	Date	Topics
		UNIT-I (GENERAL VETERINARY PARASITOLOGY)
1.	5-12-2024	Parasitology: Introduction, Important historical landmarks, Importance of parasitology in veterinary curriculum.
2.	6-12-2024	Types of parasites (ecto, endo, hyper, obligatory, facultative, stenoxenous, euryxenous, monoxenous, heteroxenous, histozoic, coelozoic, temporary, permanent).
3.	7-12-2024	Types of parasites (pseudo, aberrant, incidental, opportunistic, zoonotic, protelean etc.) Types of hosts (definitive, intermediate, reservoir, paratenic, natural, unnatural etc) and Vectors.
4.	12-12-2024	Types of animal associations (Symbiosis, Phorosy, Commensalism, Parasitism, Mutualism, Predatorism). Modes of transmission of parasites. Methods of dissemination of the infective stages of the parasites.
5.	14-12-2024	International Code of Zoological Nomenclature: Rules and regulations.Standard Nomenclature of Animal Parasitic Diseases (SNOAPAD).
6.	13-12-2024	Immunity against parasitic infections or infestations:Natural, acquired immunity, Premunity and sterile immunity. Autoimmunity, passive immunity, concomitant immunity.

7.	19-12-2024	Immune evasion by parasites.
8.	20-12-2024	General harmful effects of parasites including various tissue reactions caused by parasites.
9.	21-12-2024	General control measures against parasites.
10	26-12-2024	Characters of various phyla of parasites.
		UNIT-II (TREMATODES AND CESTODES OF VETERINARY IMPORTANCE)
11.	27-12-2024	Trematodes: Introduction, general account and Classification of trematodes.
12.	28-12-2024	General life cycle of trematodes with morphological features of their developmental stages.
13.	02-01-2025	Important morphological features, life cycles, modes of transmission, pathogenesis, epidemiology, diagnosis and general control measures (including chemo- and immune-prophylaxis) of the following trematode parasites Liver flukes (*Fasciola*, *Dicrocoelium*, *Opisthorchis)*.
14.	03-01-2025	Intestinal flukes (*Fasciolopsis*).
15.	04-01-2025	Blood flukes causing nasal schistosomosis (*Schistosoma nasalis*).
16.	09-01-2025	Visceral schistosomosis (*S. spindale, S. indicum, S. incognitum*).
17.	10-01-2025	Cercarial dermatitis.
18.	11-01-2025	Paramphistomes (*Paramphistomum).*
19.	16-01-2025	*Cotylophoron, Calicophoro* and *Gigantocotyle.*
20.	17-01-2025	*Gastrothylax, Fischoederius, Carmyerius* and *Gastrodiscus.*
21.	18-01-2025	*Gastrodiscoides* and *Pseudodiscus.*
22.	23-01-2025	*Paragonimus*, *Prosthogonimus,* Echinostomes.
23.	24-01-2025	Cestodes: Introduction, General account and classification.
24.	25-01-2025	General life cycle of cestodes with morphological features of their developmental stages (Metacestodes).
25.	30-01-2025	Important morphological features of the cestode parasites. Life cycles and modes of transmission of the cestode parasites.
26.	31-01-2025	Pathogenesis and epidemiology of the cestode parasites. Diagnosis and management of the cestode parasites.

27.	01-02-2025	Equine tape worms (*Anoplocephala, Paranoplocephala).*
28.	06-02-2025	Ruminant tape worms (*Moniezia*, *Avitellina*).
29.	07-02-2025	Ruminant tape worms (*Stilesia*, *Thysaniezia*).
30.	08-02-2025	Dog tape worms (*Dipylidium, Taenia, Echinococcus*).
31.	13-02-2025	Dog tape worms (*Dipylidium, Taenia, Echinococcus*).
32	14-02-2025	Poultry tape worms (*Davainea, Cotugnia, Raillietina, Amoebotaenia).*
33.	15-02-2025	Poultry tape worms *(Choanotaenia, Hymenolepis*).
34.	20-02-2025	Broad fish tapeworm (*Diphyllobothrium, Spirometra).*
		UNIT-III (NEMATODES OF VETERINARY IMPORTANCE)
35.	21-02-2025	Nematodes: Introduction,General account and classification of nematodes.
36.	22-02-2025	General life cycle of nematodes with morphological features of their developmental stages.
37.	27-02-2025	Important morphological features of the nematode parasites. Life cycles and modes of transmission of the nematode parasites.
38.	28-02-2025	Pathogenesis and epidemiology of the nematode parasites. Diagnosis and management of the nematode parasites.
39.	01-03-2025	*Ascaris, Parascaris,Toxocara, Toxascaris*
40.	06-03-2025	*Ascaridia, Heterakis, Oxyuris*
41.	07-03-2025	*Strongyloides, Strongylus* and *Chabertia.*
42.	08-03-2025	*Syngamus* and *Oesophagostomum.*
43.	20-03-2025	Kidney worms (*Stephanurus, Dioctophyma).*
44.	21-03-2025	Hook worms (*Ancylostoma, Bunostomum*).
45.	27-03-2025	*Trichostrongylus, Ostertagia.*
46.	28-03-2025	*Cooperia, Nematodirus*, *Haemonchus & Mecistocirrus..*
47.	29-03-2025	*Habronem,.Draschia. Thelazia,*
48.	03-04-2025	*Spirocerca, Gongylonema*.
49.	04-04-2025	*Physaloptera* and *Gnathostoma.*
50.	05-04-2025	*Dirofilaria,*

51.	11-04-2025	*Parafilaria*.
52.	12-04-2025	*Onchocerca*
53.	17-04-2025	*Setaria* and *Stephanofilaria*.
54.	19-04-2025	Lung worms (*Dictyocaulus, Muellerius*).
53.	24-04-2025	Lung worms (*Protostrongylus, Metastrongylus*).
54.	25-04-2025	Guinea worm (*Dracunculus)*
55.	26-04-2025	*Trichuris* and *Capillaria.*
56.	01-05-2025	Acanthocephala (*Macracanthorhynchus*).
57.	02-05-2025	Study of anthelmintic resistance and its types
		UNIT-IV (ARTHROPODS OF VETERINARY IMPORTANCE)
58.	03-05-2025	Arthropods: Introduction, General account and classification of arthropods.
59.	08-05-2025	General life cycle of arthropods with morphological features of their developmental stages.
60.	09-05-2025	Important morphological features, general bionomics, life cycle, vector potentiality, pathogenesis and control of arthropods affecting animals and birds.
61.	10-05-2025	Bugs (*Cimex)*.
62.	12-05-2024	Biting midges (*Culicoides*).
63.	15-05-2025	Black flies (*Simulium*). Sandflies (*Phlebotomus).*
64.	16-05-2025	Mosquitoes (*Culex, Anopheles* and *Aedes*).
65.	17-05-2025	Horse flies (*Tabanus*).
66.	22-05-2025	*Haematopota* and *Chrysops*.
67.	23-05-2025	*Musca*, *Stomoxy*s. *Haematobia* and *Sarcophaga*
68.	24-05-2025	Warbles (*Hypoderma*).
69.	30-05-2025	Stomach bots (*Gasterophilus, Cobboldia)*
70.	31-05-2025	Nasal bots (*Oestrus ovis, Cephalopina)* Bottle flies (*Calliphora, Lucilia,Chrysomya*)
71.	05-06-2025	Myiasis. *Hippobosca*,*Melophagus, Pseudolynchia.*
72.	06-06-2025	Lice (*Haematopinus, Linognathus,Trichodectes*, *Damalinia, Menopon*,

		Lipeurus, *Menacanthus* and *Heterodoxus*).
73.	12-06-2025	Fleas (*Ctenocephalides, Echidnophaga*, *Xenopsylla, Pulex*.
74.	14-06-2024	Arachnids: General account, soft ticks (*Argas*, *Ornithodoros* and *Otobius*).
75.	13-06-2025	Hard ticks (*Hyalomma, Haemaphysalis*, *Rhipicephalus (Boophilus)*, *Dermacentor, Ixodes* and *Amblyomma).*
76.	19-06-2025	Mites (*Dermanyssus,Ornithonyssus, Demodex*, *Notoedres*, *Sarcoptes*, *Psoroptes, Chorioptes*, *Cnemidocoptes* and *Otodectes*).
77.	20-06-2025	Pentasomida (*Linguatula*). Study of insecticide or acaricide resistance.
		UNIT-V (PROTOZOA OF VETERINARY IMPORTANCE)
78.	21-06-2025	Introduction, General account and classification of protozoa.
79.	26-06-2025	General life cycle of protozoa with morphological features of their developmental stages.
80.	27-06-2025	Differentiation from bacteria and rickettsia.
81.	28-06-2025	Important morphological features of the protozoan parasites of veterinary and zoonotic importance.
82.	03-07-2025	Life cycles of the protozoan parasites of veterinary and zoonotic importance.
83.	04-07-2025	Modes of transmission of the protozoan parasites of veterinary and zoonotic importance.
84.	05-07-2025	Diagnosis and general control measures (including chemo- and immunoprophylaxis) of the protozoan parasites of veterinary and zoonotic importance.
85.	10-07-2025	*Leishmania* (Visceral leishmanosis and Cutaneous leishmanosis).
86.	11-07-2025	*Trypanosoma* (*T. evansi, T.theileri, T. equiperdum*).
87.	12-07-2025	*Trichomonas* (Bovine trichomonosis, Avian trichomonosis). *Histomonas* (Black head in turkeys).
88.	17-07-2025	*Entamoeba. Giardia, Balantidium* spp.
89	18-07-2025	Coccidia and coccidiosis of poultry and domestic animals.
90	19-07-2025	Coccidia and coccidiosis of poultry and domestic animals
91	24-07-2025	Cyst forming coccidia (*Toxoplasma).*

92	25-07-2025	Cyst forming coccidia (*Sarcocystis, Neospora caninum)*
93	26-07-2025	*Cryptosporidium.*
94	31-07-2025	Malarial parasites of animals and poultry (*Plasmodium*).
95	01-08-2025	Malarial parasites of animals and poultry (*Haemoproteus, Leucocytozoon)*
96	02-08-2025	Piroplasms *(Babesia.).*
97	07-08-2025	Piroplasms *(Babesia.).*
98	08-08-2025	Piroplasms *(Theileria),*
99	09-08-2025	Piroplasms *(Theileria)*
100	14-08-2025	Piroplasms *(Hepatozoon).*
101	21-08-2025	*Anaplasma* and *Ehrlichia*
102	22-08-2025	Resistance to antiprotozoals.
103	23-08-2025	Revision of unit 1
104	28-09-2025	Revision of unit 2
105	30-09-2025	Revision of unit 3
106	04-09-2025	Revision of unit 4
107	06-09-2025	Revision of unit 5

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LECTURE SCHEDULE: PRACTICAL

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

VETERINARY PARASITOLOGY

Credit Hours: 3+2 **w.e.f. 02/12/2024** **Practical**

Lecture Duration: Two hours

Name of Teachers: Dr. Daya Shanker, Dr. Gatchanda Shravan Kumar and Dr. Sourabh Singh

UNIT-I (GENERAL VETERINARY PARASITOLOGY)

Sr. No.	Date	Topics
1.	B batch - 02-12-2024 C batch - 03-12-2024 A batch - 04-12-2024	Demonstration of the types of final and intermediate hosts.
2.	B batch - 05-12-2024 C batch - 06-12-2024 A batch - 07-12-2024	Demonstration of different organs or tissues of the hosts affected with endo-and ectoparasites
3.	B batch - 09-12-2024 C batch - 10-12-2024 A batch - 11-12-2024	Visit to Post Mortem Hall to acquaint with different organs of animals affected with parasites.
4.	B batch - 12-12-2024 C batch - 13-12-2024 A batch - 14-12-2024	Demonstration of specific parasitic lesions caused by endo- and ectoparasites.
5.	B batch - 16-12-2024 C batch - 17-12-2024 A batch - 18-12-2024	Faecal examination techniques, egg counts
6.	B batch - 19-12-2024 C batch - 20-12-2024 A batch - 21-12-2024	Examination of faecal samples for the trematode eggs
7.	B batch - 23-12-2024 C batch - 24-12-2024	Examination of faecal samples for the cestode eggs

	A batch - 28-12-2024	
8.	B batch - 26-12-2024 C batch - 27-12-2024 A batch - 01-01-2025	Examination of faecal samples for the nematode eggs
9.	B batch - 30-12-2024 C batch - 31-12-2024 A batch - 04-01-2025	Examination of faecal samples for the protozoan cysts or oocysts or trophozoites
10.	B batch - 02-01-2025 C batch - 03-01-2025 A batch - 08-01-2025	Demonstration of faecal culturing techniques
11.	B batch - 09-01-2025 C batch - 07-01-2025 A batch - 11-01-2025	Methods of collection, fixation, preservation, staining and mounting of various types of parasites
12.	B batch - 13-01-2025 C batch - 10-01-2025 A batch - 15-01-2025	Blood smear preparation: Wet, thin and thick smears.
13.	B batch - 16-01-2025 C batch - 14-01-2025 A batch - 18-01-2025	Staining of blood smears for demonstration of microfilariae and haemoprotozoan parasites
14.	B batch - 20-01-2025 C batch - 17-01-2025 A batch - 22-01-2025	Collection and examination of skin scrapings for mites.
15.	B batch - 23-01-2025 C batch - 21-01-2025 A batch - 25-01-2025	Examination of urine samples and nasal washings for parasitic findings.
UNIT-II (TREMATODES AND CESTODES OF VETERINARY IMPORTANCE)		
16.	B batch - 27-01-2025 C batch - 24-01-2025 A batch - 29-01-2025	Study of morphological, characters of adults and developmental stages of the following trematodes and cestodes
17.	B batch - 30-01-2025	*Fasciola, Fasciolopsis, Dicrocoelium, Opisthorchis,*

	C batch - 28-01-2025 A batch - 01-02-2025	*Schistosoma, Paragonimus, Prosthogonimus, Echinostomes*
18.	B batch - 03-02-2025 C batch - 31-01-2025 A batch - 05-02-2025	*Paramphistomes (Paramphistomum, Cotylophoron, Gigantocotyle, Gastrothylax Fischoederius, Gastrodiscus. Gastrodiscoides and Pseudodiscus).*
19.	B batch - 06-02-2025 C batch - 07-02-2025 A batch - 08-02-2025	*Anoplocephala. Paranoplocephala, Monirzia, Avitellina, Stileria, Davainea, Cotugnia Raillietina, Amoebotaenia. Choanotaenia. Hymenolepis*
20.	B batch - 06-02-2025 C batch - 07-02-2025 A batch - 08-02-2025	*Dipylidium, Taenia, Echinococcus, Diphyllobothrium* and *Spirometra.* Demonstration of gross and microscopic lesions of parasites.
UNIT-III (NEMATODES OF VETERINARY IMPORTANCE)		
21.	B batch - 10-02-2025 C batch - 11-02-2025 A batch - 12-02-2025	Study of morphological characters of adults and developmental stages of the following nematodes *Ascaris Parascaris, Toxocara, Toxascaris, Ascaridia, Heterakis, Oxyuris,*
22.	B batch - 13-02-2025 C batch - 14-02-2025 A batch - 15-02-2025	*Strongyloides, Strongylus. Chabertia. Syngamus and Oesophagostomum. Stephanurus. Dioctophyma, Ancylostoma, Bunostomum. Ostertagia, Trichostrongylus.*
23.	B batch - 17-02-2025 C batch - 18-02-2025 A batch - 19-02-2025	*Cooperia Nematodirus. Haemonchus and Mecistocirrus. Habronema, Draschia.*
24.	B batch - 20-02-2025 C batch - 21-02-2025 A batch - 22-02-2025	*Thelazia. Spirocerca. Gongylonema, Physaloptera, Gnathostoma*
25.	B batch - 24-02-2025 C batch - 25-02-2025 A batch - 01-03-2025	*Dirofilaria, Parafilaria, Onchocerco, Setaria Stephanofilaria,*
26.	B batch - 27-02-2025	*Dictyocaulus. Muellerias. Protostrongylus,*

	C batch - 28-02-2025 A batch - 05-03-2025	*Metastrongylus, Dracunculus.*
27.	B batch - 03-03-2025 C batch - 04-03-2025 A batch - 08-03-2025	*Trichinella. Trichuris, Capillaria* and *Macracanthorhynchus*
28.	B batch - 06-03-2025 C batch - 07-03-2025 A batch - 12-03-2025	Demonstration of gross and microscopic lesions of parasites
UNIT-IV (ARTHROPODS OF VETERINARY IMPORTANCE)		
29.	B batch - 10-03-2025 C batch - 11-03-2025 A batch - 15-03-2025	Study of morphological characters of adults and the cycle stages of the following arthropods: *Culicoides, Simulium*
30.	B batch - 17-03-2025 C batch - 18-03-2025 A batch - 19-03-2025	*Phlebotomas, Cimex*
31.	B batch - 20-03-2025 C batch - 21-03-2025 A batch - 22-03-2025	*Culex Anopheles, Aedes*
32.	B batch - 24-03-2025 C batch - 25-03-2025 A batch - 26-03-2025	*Tabanas, Haematopota* and *Chrysops*
33.	B batch - 27-03-2025 C batch - 28-03-2025 A batch - 29-03-2025	*Musca, Stomarys. Haematobia*
34.	B batch - 31-03-2025 C batch - 01-04-2025 A batch - 02-04-2025	*Gasterophilus. Hypoderma, Oestrus ovis, bottle flies*
35.	B batch - 03-04-2025 C batch - 04-04-2025 A batch - 05-04-2025	*Sarchophaga. Hippobosca. Melophagus* and *Pseudolynchia*
36.	B batch - 07-04-2025	*Trichodectes, Menopoв.*

	C batch - 08-04-2025 A batch - 09-04-2025	
37.	B batch - 17-04-2025 C batch - 15-04-2025 A batch - 12-04-2025	*Menacanthus, Lipeurus, Haemotopinus,linognathus and Damalinia*
38.	B batch - 21-04-2025 C batch - 22-04-2025 A batch - 16-04-2025	*Xenopsylla Ctenocephalides and Echidnophaga*
39.	B batch - 24-04-2025 C batch - 25-04-2025 A batch - 19-04-2025	*Argas. Ornithodoros. Otobius*
40.	B batch - 28-04-2025 C batch - 02-05-2025 A batch - 23-04-2025	*Ixodes. Hyalomma,*
41.	B batch - 01-05-2025 C batch - 06-05-2025 A batch - 26-04-2025	*Rhipicephalus (Boophilus)*
42.	B batch - 05-05-2025 C batch - 09-05-2025 A batch - 30-04-2025	*Haemoprysalis*
43.	B batch - 08-05-2025 C batch - 13-05-2025 A batch - 03-05-2025	*Dermacentor and Amblyoma*
44.	B batch - 12-05-2025 C batch - 16-05-2025 A batch - 07-05-2025	*Dermanyssus, Ornithonyssus*
45.	B batch - 15-05-2025 C batch - 20-05-2025 A batch - 10-05-2025	*Demodex. Notoedres*
46.	B batch - 19-05-2025 C batch - 23-05-2025	*Sarcoptes*

	A batch - 14-05-2025	
47.	B batch - 22-05-2025 C batch - 27-05-2025 A batch - 17-05-2025	*Psoroptes*
48.	B batch - 26-05-2025 C batch - 30-05-2025 A batch - 21-05-2025	*Chorioptes, Cnemidocoptes*
49.	B batch - 02-06-2025 C batch - 03-06-2025 A batch - 24-05-2025	*Otodectes*
50.	B batch - 05-06-2025 C batch - 06-06-2025 A batch - 28-05-2025	Pentastomida
51.	B batch - 09-06-2025 C batch - 10-06-2025 A batch - 31-05-2025	Demonstration of gross and microscopic lesions of parasites
UNIT-V (PROTOZOA OF VETERINARY IMPORTANCE)		
52.	B batch - 12-06-2025 C batch - 13-06-2025 A batch - 04-06-2025	Study of morphological characters of different stages of following protozoan parasites*: Leishmania, Trypanosoma*
53.	B batch - 16-06-2025 C batch - 17-06-2025 A batch - 11-06-2025	*Trichomonas*
54.	B batch - 19-06-2025 C batch - 20-06-2025 A batch - 14-06-2025	*Histomonas*
55.	B batch - 23-06-2025 C batch - 24-06-2025 A batch - 18-06-2025	*Entamoeba*

56.	B batch - 26-06-2025 C batch - 27-06-2025 A batch - 21-06-2025	*Balantidium, Giardia*
57.	B batch - 30-06-2025 C batch - 01-07-2025 A batch - 25-06-2025	*Eimeria*
58.	B batch - 03-07-2025 C batch - 04-07-2025 A batch - 28-06-2025	*Isospora*
59.	B batch - 07-07-2025 C batch - 08-07-2025 A batch - 02-07-2025	*Sarcocystis*
60.	B batch - 10-07-2025 C batch - 11-07-2025 A batch - 05-07-2025	*Toxoplasma*
61.	B batch - 14-07-2025 C batch - 15-07-2025 A batch - 09-07-2025	*Cryptosporidium*
63.	B batch - 17-07-2025 C batch - 18-07-2025 A batch - 12-07-2025	*Plasmodium, Haemoproteus* and *Leucocytozoon*
64.	B batch - 21-07-2025 C batch - 22-07-2025 A batch - 16-07-2025	*Babesia. Theileria* and *Hepatozoon*
65.	B batch - 24-07-2025 C batch - 25-07-2025 A batch - 19-07-2025	Rickettsial organism *Anaplasma* and *Ehrlichia*
66	B batch - 28-07-2025 C batch - 29-07-2025	Demonstration of formol ether and Ziehl-Neelson's staining techniques and other faecal examination

	A batch - 23-07-2025	techniques
67	B batch - 31-07-2025 C batch - 01-08-2025 A batch - 26-07-2025	Diagnosis of intestinal protozoan infections by iodine and eosin stain methods
68	B batch - 04-08-2025 C batch - 05-08-2025 A batch - 30-07-2025	Demonstration of gross and microscopic lesions due to protozoan parasites.
69	B batch - 07-08-2025 C batch - 08-08-2025 A batch - 02-08-2025	Demonstration of *Haemoproteus columbae* in the blood.
70	B batch - 11-08-2025 C batch - 12-08-2025 A batch - 06-08-2025	Demonstration of sporulation for diagnosis of coccidian parasites.
71	B batch - 14-08-2025 C batch - 19-08-2025 A batch - 09-08-2025	Revision
72	B batch - 18-08-2025 C batch - 22-08-2025 A batch - 13-08-2025	Revision
73	B batch - 21-08-2025 C batch - 26-08-2025 A batch - 20-08-2025	Revision
74	B batch - 25-08-2025 C batch - 29-08-2025 A batch - 23-08-2025	Revision
75	B batch - 28-08-2025 C batch - A batch - 27-08-2025	Revision
76	B batch - 01-09-2025 C batch - A batch - 30-08-2025	Revision

77	B batch - 04-09-2025 C batch - A batch - 03-09-2025	Revision
78	B batch - 08-08-2025 C batch - A batch - 06-08-2025	Revision