

Academic:

1. Degree Offered –UG, PG, PhD

Title of degree:

Duration:

Eligibility Criteria:

Intake Capacity:

Opportunities:

2. Academic Regulations:

UG , PG, PhD (VCI, ICAR, IV, V Dean's and Corrigendum) – PDF Copies

3. Admissions:

UG, PG, PhD

List of Admitted Students – First Year to Final Year (Veterinary Year wise / Fishery and Dairy Semester wise):

Sr. No.	Name of Student	Enrl. No.	Email Address	Name of Advisor
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4. Course offered :: UG, PG , PhD - Semester / Year wise

- List of UG Courses (B.V.Sc & AH) As per latest MSVE Guidelines) , B.Tech. (D.T.) and B.F.Sc as per ICAR – V Deans Committee – 2016.

Sr No	Course No.	Title	Credit	Course offered in the Year

- List of PG Courses (MVSc) and M.Tech. (Dairy Technology)

Sr No	Course No .	Title	Credit	Semester

Department of Veterinary Parasitology,

KNP college of Veterinary Science , Shirwal

- ### 5. Lecture Schedule – UG, PG , PhD - Theory / Practical Schedule – Approved by BoS – Subject wise UG subject Veterinary Parasitology 3rd year Theory / Practical Schedule – Approved by BoS

Veterinary Parasitology

Theory lecture Schedule for Veterinary Parasitology offered in Third Year of B.V.Sc & A.H. Degree Program as per the MSVE-2016

Sr. No.	Topics to be covered in Theory
1	Introduction to Parasitology, types of animal associations, parasite and types of parasitism (Commensalism, Symbiosis, Predatorism, Phoresis and Mutualism).
2	Types of Hosts (Final, intermediate, paratenic and reservoir), vector, natural and unnatural, host parasite relationship and types of parasites
3	Types of Hosts (Final, intermediate, paratenic and reservoir), vector, natural and unnatural, host parasite relationship and types of parasites continuation...
4	Effects of parasitism to their host, specificity of parasites in relation to species, breed, sex of host and location in the host (organ specificity)
5	Effects of parasitism to their host, specificity of parasites in relation to species, breed, sex of host and location in the host (organ specificity) continuation.....
6	Modes of transmission of parasites and methods of dissemination of infective stages of parasites
7	Resistance of host to parasitic infections/infestation. Complete, incomplete age and reverse age resistance
8	Immunity to parasitic infections (natural and acquired)
9	Nomenclature of parasites, standardized nomenclature of animal parasitic diseases (SNOAPAD)
10	General characters of Phylum: Platyhelminthes,
11	General characters of Phylum: Nematelminthes and Acanthocephala
12	General description of platy helminth parasites affecting domestic animals and birds. Classification of platyhelminth parasites
13	General description of Nematelminth parasites affecting domestic animals and birds. Classification of Nematelminth parasites
14	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of liverfluke <i>Fasciola</i> spp.
15	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of liverfluke <i>Fasciola</i> spp. Continuation....
16	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of liver fluke <i>Dicrocoelium</i> spp., <i>Opisthorchis</i> spp. and Intestinal fluke <i>Fasciolopsis</i> spp.

17	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of lung flukes (<i>Paragonimus</i> spp.), oviduct fluke (<i>Prosthogonimus</i> spp.) and <i>Echinostome</i> spp.
18	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Amphistomes, <i>Paramphistomum</i> , <i>Cotylophoron</i> , <i>Calicophoron</i> , <i>Gastrothylax</i> , <i>Fischoedirus</i> , <i>Carmyeurus</i> , <i>Gastrodiscus</i> , <i>Gastrodiscoides</i> , <i>Psuedodiscus</i> and <i>Gigantocotyles</i> spp. and immature amphistomiosis
19	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Amphistomes, <i>Paramphistomum</i> , <i>Cotylophoron</i> , <i>Calicophoron</i> , <i>Gastrothylax</i> , <i>Fischoedirus</i> , <i>Carmyeurus</i> , <i>Gastrodiscus</i> , <i>Gastrodiscoides</i> , <i>Psuedodiscus</i> and <i>Gigantocotyles</i> spp. and immature amphistomiosis continuation.....
20	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of blood flukes <i>Schistosoma nasale</i> spp.
21	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of flukes causing cercarial dermatitis and visceral (hepato-intestinal) schistosomosis (<i>Schistosoma spindale</i> , <i>S.indicum</i> , <i>S.incognitum</i>)
22	Study on general characters of cestodes and larval metacestodes of tapeworms
23	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of equine tapeworms (<i>Anoplocephala</i> , <i>Paranoplocephala</i> spp.)
24	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of ruminant tapeworms (<i>Moniezia</i> , <i>Avitellina</i> , <i>Stilesia</i> & <i>Thysaneizias</i> spp.)
25	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of poultry tapeworms (<i>Davainea</i> , <i>Cotugnia</i> , <i>Raillietina</i> , <i>Amoebotaenia</i> , <i>Choanotaenia</i> & <i>Hymenolepis</i> spp.)
26	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of dog tapeworms (<i>Dipylidium</i> , <i>Taenia</i> spp.)
27	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Human tapeworms (<i>Taenia saginata</i> and <i>Taenia solium</i>)

28	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of dog tapeworms (<i>Multiceps</i> , <i>Echinococcus</i> spp.)
29	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Broad fish tapeworm (<i>Diphyllbothrium</i> , <i>Spirometraspp.</i>), Dwarf tapeworm (<i>Hymenolepis</i> spp.)
30	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of <i>Ascaris</i> spp.
31	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of <i>Parascaris</i> and <i>Oxyuris</i> spp.
32	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of <i>Toxocara</i> spp.
33	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of <i>Toxascaris</i> spp.
34	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of <i>Ascaridia</i> and <i>Heterakis</i> spp.
35	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Bursate worms <i>Strongyloides</i> and <i>Strongylus</i> spp.
36	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Bursate worms <i>Strongylus</i> spp.
37	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Bursate worms <i>Strongylus</i> contd., <i>Chabertia</i> and <i>Syngamus</i> spp.
38	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Bursate worm <i>Oesophagostomum</i> spp.
39	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of kidney worm (<i>Stephanurus</i> spp., <i>Dioctyophyma</i> spp.)

40	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of hookworms (<i>Ancylostoma</i> spp., <i>Agriostomum</i> spp.)
41	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of hookworm <i>Bunostomum</i> spp., <i>Trichostrongylus</i> spp.
42	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of hookworm <i>Oestertagia</i> spp., <i>Cooperia</i> spp., <i>Nematodirus</i> spp.
43	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of stomach worms <i>Haemonchus</i> spp. <i>Mecistocirrus</i> spp.
44	Comprehensive study on GI nematodes of ruminants and their integrated management along with anthelmintic therapy
45	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of lung worms <i>Dictyocaulus</i> spp., <i>Mullerius</i> spp., <i>Protostrongylus</i> spp., <i>Metastrongylus</i> spp.
46	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of tissue round worms <i>Draschia</i> spp., <i>Habronema</i> spp., <i>Theleazia</i> spp.
47	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of tissue round worms <i>Spirocerca</i> , <i>Gongylonema</i> , <i>Physaloptera</i> , <i>Gnathostoma</i> spp.
48	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Filarial worms <i>Dirofilaria</i> , <i>Parafilaria</i> spp.
49	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of filarial worms <i>Onchocerca</i> , <i>Setaria</i> , <i>Stephanofilaria</i> spp.
50	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of guinea worm <i>Dracunculus</i> spp.
51	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of guinea worm <i>Trichinella</i> and <i>Trichuris</i> spp.

52	Study of <i>Capillaria</i> , <i>Acantocephala</i> & General principles of control of helminthic diseases by adapting physical, chemical, biological control (Integrated Parasite Control, IPC)
53	Antihelminthic resistance and its types
54	Antihelminthic resistance and its types continuation.....
55	General description and characterization of arthropods, Characterization of Class Insecta & Class Arachnida.
56	Classification of Insecta, Development of Insects, Metamorphosis, Types of Metamorphosis – Complete & Incomplete, Types of Larvae & Pupae
57	Study of <i>Culicoides</i> spp., <i>Simulium</i> spp and <i>Phlebotomus</i> spp.:
58	Study of Characterization , Classification of Family <i>Culicidae</i> and <i>Culex Anopheles</i> & <i>Aedes</i> spp.
59	Study of <i>Tabanus</i> , <i>Haematopota</i> & <i>Chrysops</i> spp.
60	Study of <i>Musca</i> , <i>Stomoxys</i> , <i>Haematobia</i> & <i>Sarcophaga</i> spp.
61	Blow fly myiasis: Study of <i>Lucilia</i> , <i>Calliphora</i> , <i>Chrysomyia</i> and <i>Phormia</i> spp.
62	Screw worm fly myiasis: Study of <i>Chrysomyia</i> spp. & types of myiasis – Obligatory, Facultative & Accidental
63	Study of <i>Oestrus ovis</i> , <i>Gasterophilus</i> , <i>Cobboldia</i> & <i>Cephalopinnas</i> spp.
64	Study of <i>Hypoderma</i> , <i>Hippobosca</i> , <i>Pseudolynchias</i> spp. & <i>Melophagus ovinus</i> .
65	Study of Fleas – <i>Ctenocephalides</i> spp., <i>Pulex</i> spp., <i>Echidnophaga gallinacea</i> & <i>Xenopsylla</i> spp.
66	Study of Lice - Anopleura- <i>Haematopinus</i> spp., <i>Linognathus</i> spp. & <i>Mallophaga</i> – <i>Damalinia</i> spp., <i>Heterodoxus</i> spp. & <i>Trichodectes</i> spp. <i>Menopon gallinae</i> , <i>Lipeurus caponis</i> & <i>Menacanthus stramineus</i> & Bugs (<i>Cimex lectularius</i>)
67	Study of Gamasid mites – <i>Dermanyssus</i> spp., <i>Ornithonyssus</i> spp. & Soft ticks – <i>Ornithodoros</i> spp. & <i>Otobius</i> spp.
68	Study of <i>Argas persicus</i>
69	Study of hard ticks- <i>Boophilus</i> , <i>Rhipicephalus</i> , <i>Haemaphysalis</i> , <i>Hyalomma</i> , <i>Amblyomma</i> , <i>Ixodes</i> & <i>Dermacentor</i> spp.
70	Follicular Mange – <i>Demodex</i> spp.
71	Study of <i>Sarcoptes scabiei</i> , <i>Notoedres cati</i> , <i>Cnemidocoptes</i> , <i>Psoroptes</i> , <i>Otodectes</i> , <i>Chorioptes</i> spp.
72	Study of <i>Linguatula</i> spp. & acaricide and insecticide resistance

73	General description of protozoa, Differentiation from Protophyta
74	Nutrition, excretion, respiration & locomotion in protozoa
75	Reproduction in protozoa & classification of protozoa
76	Study of <i>Entamoeba</i> spp.
77	General features of Zoomastigophora, its Orders & Family <i>Trypanosomatidae</i> . Life-cycle stages of the family, Genera of <i>Trypanosomatidae</i> , pattern of developmental cycle of the members of the family
78	Genus <i>Trypanosoma</i> , Types of Development – Salivaria&Stercoraria – Subgenera & species of <i>Trypanosoma</i> , Study of cyclically transmitted Salivarian <i>Trypanosoma</i> spp.
79	Study of Stercorarian <i>Trypanosoma</i> spp. (<i>T. cruzi</i> & <i>T. theileri</i>)
80	Study of Mechanically transmitted <i>Trypanosoma evansi</i> :Life cycle pathogenesis and Symptoms
81	Study of Mechanically transmitted <i>Trypanosoma evansi</i> : Diagnosis, treatment and control and <i>Trypanosoma equiperdum</i>
82	Study of visceral leishmaniosis – <i>Leishmania</i> spp.
83	Study of cutaneous leishmaniosis – <i>Leishmania tropica</i> & <i>Giardia</i> spp.
84	Study of bovine trichomoniosis – <i>Tritrichomonas foetus</i>
85	Study of avian trichomoniosis – <i>Trichomonas gallinae</i> & <i>Histomonas meleagridis</i>
86	General features of Phylum Apicomplexa, Class Sporozoea, Subclass Coccidiia, Order Eucoccidiida&Piroplasmida. Suborders of Eucoccidiida – Eimerina, haemosporina&Adeilina. Family <i>Eimeriidae</i> & its Genera – <i>Eimeria</i> & <i>Isospora</i> spp.
87	General features of Phylum Apicomplexa, Class Sporozoea, Subclass Coccidiia, Order Eucoccidiida&Piroplasmida. Suborders of Eucoccidiida – Eimerina, haemosporina&Adeilina. Family <i>Eimeriidae</i> & its Genera – <i>Eimeria</i> & <i>Isospora</i> spp. Continuation...
88	General pattern of life-cycle of coccidia
89	Study of Poultry coccidiosis – <i>Eimeria tenella</i> & <i>Eimeria necatrix</i>
90	Study of Poultry coccidiosis – <i>Eimeria acervulina</i> , <i>Eimeria maxima</i> & <i>Eimeria brunetti</i>
91	Epidemiology, diagnosis, treatment, control & immunity of poultry coccidiosis
92	Study of bovine coccidiosis
93	Study of ovine, caprine, dog, cat and pig coccidian

94	Study of <i>Cryptosporidium</i> spp.
95	Study of <i>Neospora caninum</i>
96	Study of <i>Sarcocystis</i> spp.
97	Study of <i>Toxoplasma</i> spp.
98	Study of avian malaria – <i>Plasmodium gallinaceum</i> & <i>Plasmodium bubalis</i>
99	Study of <i>Haemoproteus columbae</i> & <i>Hepatozoon canis</i> .
100	General features of Babesia & Life-cycle patterns of <i>Babesia</i> spp.
101	In general pathogenesis of <i>Babesia</i> spp. & Study of bovine piroplasmosis- <i>Babesia bigemina</i> & <i>Babesia bovis</i>
102	Study of canine piroplasmosis (<i>Babesia canis</i> & <i>Babesia gibsoni</i>) & equine piroplasmosis (<i>Babesia caballi</i> & <i>Babesia equi</i>)
103	Study of <i>Theileria</i> spp.
104	Continuation of Theileriosis
105	Study of <i>Balantidium coli</i>
106	Study of <i>Ehrlichia</i> spp. and <i>Anaplasma</i> spp.
107	Protozoan Vaccines
108	Resistance to antiprotozoan drugs

Practical Schedule for Veterinary Parasitology offered in Third Year of B.V.Sc & A.H. Degree Program as per the MSVE-2016

	Topic to be covered in Practicals (Practical Schedule)	Course teacher
1	Introduction to Helminthology	Dr. P. D. Pawar
2	Methods of collection, fixation, preservation and mounting of helminth parasites	Dr. P. D. Pawar
3	Faecal samples analysis – Gross and Qualitative analysis	Dr. P. D. Pawar
4	Faecal samples analysis – Gross and Qualitative analysis continuation....	Dr. P. D. Pawar
5	Faecal sample analysis – Quantitative analysis	Dr. P. D. Pawar
6	Faecal culture techniques	Dr. P. D. Pawar
7	Micrometry - Measurement of microscopic object-Demonstration	Dr. P. D. Pawar
8	Study of life cycle chart and life cycle stages of Digenetic trematodes and types of cercaria	Dr. P. D. Pawar

9	Study of <i>Fasciola</i> , <i>Fasciolopsis</i> spp. and its intermediate host	Dr. P. D. Pawar
10	Study of <i>Dicrocoelium</i> , <i>Opisthorchis</i> , <i>Paragonimus</i> , <i>Prosthogonimus</i> , <i>Echinostoma</i> spp. and its intermediate host	Dr. P. D. Pawar
11	Study of <i>Paramphistomum</i> , <i>Cotylophoron</i> , <i>Calicophoron</i> , <i>Gigantocotyle</i> , <i>Gastrothylax</i> , <i>Fischoederius</i> , <i>Gastrodiscus</i> , <i>Pseudodiscus</i> spp. and its intermediate host	Dr. P. D. Pawar
12	Study of <i>S.spindale</i> , <i>S.indicum</i> , <i>S.incognitum</i> & <i>Schistosoma nasalis</i>	Dr. P. D. Pawar
13	Study of <i>Anoplocephala</i> , <i>Paranoplocephala</i> and <i>Moniezia</i> spp.	Dr. P. D. Pawar
14	Study of <i>Avitellina</i> , <i>Stilesia</i> , <i>Thysaniezia</i> spp.	Dr. P. D. Pawar
15	Study of <i>Davainea</i> , <i>Cotugnia</i> , <i>Raillietina</i> , <i>Amoebotaenia</i> , <i>Choanotaenia</i> , <i>Hymenolepis</i> spp.	Dr. P. D. Pawar
16	Study of <i>Taenia</i> spp	Dr. P. D. Pawar
17	Study of Bladder worms: <i>Cysticercus</i> , <i>Coenurus</i> , <i>Hydatid</i> , <i>Cysticercoid</i> , <i>Strobilocercus</i> spp.	Dr. P. D. Pawar
18	Study of <i>Dipylidium</i> , <i>Echinococcus</i> , <i>Diphyllbothrium latum</i> , <i>Spirometra</i> spp.	Dr. P. D. Pawar
19	Study of <i>Ascaris</i> , <i>Parascaris</i> , <i>Toxocara</i> , <i>Toxascaris</i> spp	Dr. P. D. Pawar
20	Study of <i>Ascaridia</i> , <i>Heterakis Oxyuris</i> spp.	Dr. P. D. Pawar
21	Study of <i>Strongylus</i> and <i>Strongyloides</i> spp.	Dr. P. D. Pawar
22	Study of <i>Stephanurus</i> , <i>Dioctophyma</i> , <i>Syngamus</i> , <i>Ancylostoma</i> , <i>Bunostomum</i> , spp.	Dr. P. D. Pawar
23	Study of <i>Haemonchus</i> , <i>Mecistocirrus</i> , <i>Trichostrongylus</i> , <i>Ostertagia</i> , <i>Cooperia</i> and <i>Nematodirus</i> , spp.	Dr. P. D. Pawar
24	Study of <i>Chabertia</i> , <i>Oesophagostomum</i> , <i>Dictyocaulus</i> , <i>Muellerius</i> , <i>Protostrongylus</i> and <i>Metastrongylus</i> spp.	Dr. P. D. Pawar
25	Study of <i>Habronema</i> , <i>Draschia</i> , <i>Spirocerca</i> , <i>Gongylonema</i> , <i>Physaloptera</i> , <i>Gnathostoma</i> , <i>Thelazia</i> spp.	Dr. P. D. Pawar
26	Study of <i>Dirofilaria</i> , <i>Parafilaria</i> , <i>Onchocerca</i> , <i>Setaria</i> and <i>Stephanofiliaria</i> spp.	Dr. P. D. Pawar
27	Detection of microfilaria by wet blood smear and Knott's method	Dr. P. D. Pawar
28	Study of <i>Trichuris</i> and <i>Trichinella</i> spp.	Dr. P. D. Pawar
29	Visit to Slaughter house or necropsy/PM	Dr. P. D. Pawar
30	Field Visit for deworming camp/ awareness camp/adopted village	Dr. P. D. Pawar
31	Visit to Slaughter house or necropsy/PM	Dr. P. D. Pawar
32	Screening of College farm for helminths	Dr. P. D. Pawar

33	Screening of College farm for helminths	Dr. P. D. Pawar
34	Visit to Poultry farm for screening of parasites	Dr. P. D. Pawar
35	Antiparasitic drugs their formulations, methods of administration/application	Dr. P. D. Pawar
36	Visit to Poultry farm for screening of parasites	Dr. P. D. Pawar
37	Collection and preservation of arthropods.	Dr. P. D. Pawar
38	Processing of arthropods	Dr. P. D. Pawar
39	Proboscis of Cockroach, Mosquito, <i>Tabanus</i> , <i>Musca</i> , <i>Stomoxys</i> & <i>Hippobosca</i> spp.	Dr. P. D. Pawar
40	Proboscis of bed bug, flea, biting lice, sucking lice and ticks	Dr. P. D. Pawar
41	Study of Mosquitoes-Culex, Anopheles & Aedes spp.	Dr. P. D. Pawar
42	Study of <i>Culicoides</i> spp., <i>Phlebotomus</i> spp. & <i>Simulium</i> spp.	Dr. P. D. Pawar
43	Study of <i>Tabanus</i> spp., <i>Haematopota</i> , <i>Chrysops</i> spp.	Dr. P. D. Pawar
44	Study of <i>Musca</i> , <i>Stomoxys</i> , <i>Haematobia</i> & <i>Sarcophaga</i> spp.	Dr. P. D. Pawar
45	Study of <i>Lucilia</i> spp., <i>Calliphora</i> spp., <i>Chrysomyia</i> spp. <i>Phormia</i> spp.	Dr. P. D. Pawar
46	Study of <i>Callitroga</i> spp., <i>Oestrus ovis</i> , <i>Gasterophilus</i> , <i>Cobboldia</i> , <i>Cephalopinna</i> & <i>Hypoderma</i> spp.	Dr. P. D. Pawar
47	Study of <i>Hippobosca</i> , <i>Pseudolynchia</i> spp. & <i>Melophagus ovinus</i> .	Dr. P. D. Pawar
48	Study of <i>Ctenocephalides</i> , <i>Pulex</i> spp., <i>Echidnophaga gallinacea</i> , <i>Xenopsylla</i> spp. & <i>Cimex lectularius</i>	Dr. P. D. Pawar
49	Study of Avian lice	Dr. P. D. Pawar
50	Screening of College farm for arthropods	Dr. P. D. Pawar
51	Study of Mammalian lice	Dr. P. D. Pawar
52	Study of <i>Dermanyssus</i> , <i>Ornithonyssus</i> spp. <i>Argas persicus</i> , <i>Ornithodoros</i> & <i>Otobius</i> spp.	Dr. P. D. Pawar
53	Study of <i>Boophilus</i> spp., <i>Rhipicephalus</i> spp. & <i>Haemaphysalis</i> spp.	Dr. P. D. Pawar
54	Study of <i>Hyalomma</i> spp., <i>Amblyomma</i> spp. <i>Dermacentor</i> spp. & <i>Ixodes</i> spp.	Dr. P. D. Pawar
55	Skin Scraping Examination	Dr. P. D. Pawar
56	Study of <i>Demodex</i> spp., <i>Sarcoptes scabiei</i> , <i>Notoedres cati</i> , <i>Psoroptes</i> , <i>Otodectes</i> , <i>Cnemidocoptes</i> & <i>Chorioptes</i> spp.	Dr. P. D. Pawar

57	Diagnosis of protozoan infection Part I: Enteric and tissue dwelling protozoan infections.	Dr. P. D. Pawar
58	Diagnosis of protozoan infection Part II: Haemoprotozoan infections.	Dr. P. D. Pawar
59	Study of <i>Entamoeba</i> spp.	Dr. P. D. Pawar
60	Study of <i>Trypanosoma</i> spp. and <i>Leishmania</i> spp.	Dr. P. D. Pawar
61	Study of <i>Tritrichomonas</i> spp., <i>Trichomonas</i> spp. <i>Histomonas meleagridis</i> and <i>Giardia</i> spp.	Dr. P. D. Pawar
62	Study of Life cycle of Poultry coccidia.	Dr. P. D. Pawar
63	Study of oocysts of common species of coccidia of bovines, ovine, caprine, dog, cat and pig. Study of <i>Cryptosporidium</i> spp.	Dr. P. D. Pawar
64	Technique for sporulation of coccidian oocysts.	Dr. P. D. Pawar
65	Study of <i>Sarcocystis</i> spp. with its life cycle chart.	Dr. P. D. Pawar
66	Study of <i>Toxoplasma gondii</i> & <i>Neospora caninum</i> with life cycle charts	Dr. P. D. Pawar
67	Study of <i>Plasmodium gallinaceum</i> and its life cycle chart/ human and bubaline malaria	Dr. P. D. Pawar
68	Study of <i>Haemoproteus columbae</i> , <i>Hepatozoon canis</i> and its life cycle chart.	Dr. P. D. Pawar
69	Study of <i>Babesia</i> spp. of cattle and dog with life cycle chart	Dr. P. D. Pawar
70	Screening of College farm for protozoa	Dr. P. D. Pawar
71	Study of <i>Theileria</i> spp. with life cycle chart and <i>Balantidium coli</i>	Dr. P. D. Pawar
72	Study of <i>Anaplasma</i> spp., <i>Ehrlichia</i> spp.	Dr. P. D. Pawar

Books for reference:

1. Helminths, Arthropods and protozoa of domestic animals- E.J.L. Soulsby latest edition
2. Textbook of Veterinary Parasitology- B.B. Bhatia *et al.* ;latest edition
3. Parasitology for Veterinarians- Georgi; latest edition
4. Appraisal of Veterinary Parasitology on Internet

During XXXVIII (38th) BoS in Veterinary Parasitology held at Maharashtra Animal & Fishery Sciences University, online on 27.12.2021 at 3.00 P.M.[ONLINE] course distribution has been done. Said distribution has been revised keeping in view the changes as per MAFSU PG Academic Regulations 2022 to be implemented during current Academic year. Similarly Ph. D. In-service course distribution is also added.

Courses offered for PG Studies in Veterinary Parasitology

Semester	Course No	Title	Credit	Credits in a semester
I	VPA 501	Platyhelminths-I*	1+1	Maximum 20
	VPA 502	Platyhelminths-II*	1+1	
	VPA 503	Nematohelminths and Acanthocephala*	2+1	
	VPA 506	Diagnostic Parasitology OR any other course from major subject of 2 to 3 credit hrs	0+2	
	Minor		3 or 4 or 5 credit hrs	
	Supporting		3	
II	VPA 504	Arthropod parasites*	2+1	Maximum 20
	VPA 505	Parasitic protozoa*	2+1	
	VPA 507	Clinical Parasitology	1+1	
		Any one course from following		
	VPA 508,	Management of Parasitic diseases	1+1	
	VPA 509,	Immunoparasitology	2+1	
	VPA 510	Parasitic zoonoses	2+0	
	VPA 511	Parasites of wild life	1+1	
	Minor		3 or 4 or 5 credit hrs	
	Supporting		3	
III		Any one course from following		Maximum 20
	VPA 508,	Management of Parasitic diseases	1+1	
	VPA 509,	Immunoparasitology	2+1	
	VPA 510 or	Parasitic zoonoses	2+0	
	VPA 511	Parasites of wild life	1+1	

	VPA 591	Masters Seminar*	1+0	
	VPA 599	Masters Research	10	
	Common courses		5	
IV	VPA 599	Masters Research	20	20

*Core Courses

6. Teaching Schedule :UG, PG , PhD - Prepared by – Course Teacher – Year wise / Course Wise

Theory lecture Schedule for Veterinary Parasitology offered in Third Year of B.V.Sc & A.H. Degree Program as per the MSVE-2016

Sr. No.	Topics to be covered in Theory	Course Teacher
1	Introduction to Parasitology, types of animal associations, parasite and types of parasitism (Commensalism, Symbiosis, Predatorism, Phoresis and Mutualism).	Dr. P. D. Pawar
2	Types of Hosts (Final, intermediate, paratenic and reservoir), vector, natural and unnatural, host parasite relationship and types of parasites	Dr. P. D. Pawar
3	Types of Hosts (Final, intermediate, paratenic and reservoir), vector, natural and unnatural, host parasite relationship and types of parasites continuation...	Dr. P. D. Pawar
4	Effects of parasitism to their host, specificity of parasites in relation to species, breed, sex of host and location in the host (organ specificity)	Dr. P. D. Pawar
5	Effects of parasitism to their host, specificity of parasites in relation to species, breed, sex of host and location in the host (organ specificity) continuation.....	Dr. P. D. Pawar
6	Modes of transmission of parasites and methods of dissemination of infective stages of parasites	Dr. P. D. Pawar
7	Resistance of host to parasitic infections/infestation. Complete, incomplete age and reverse age resistance	Dr. P. D. Pawar
8	Immunity to parasitic infections (natural and acquired)	Dr. P. D. Pawar
9	Nomenclature of parasites, standardized nomenclature of animal parasitic diseases (SNOAPAD)	Dr. P. D. Pawar

10	General characters of Phylum: Platyhelminthes,	Dr. P. D. Pawar
11	General characters of Phylum: Nematelminthes and Acanthocephala	Dr. P. D. Pawar
12	General description of platy helminth parasites affecting domestic animals and birds. Classification of platyhelminth parasites	Dr. P. D. Pawar
13	General description of Nematelminth parasites affecting domestic animals and birds. Classification of Nematelminth parasites	Dr. P. D. Pawar
14	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of liverfluke <i>Fasciola</i> spp.	Dr. P. D. Pawar
15	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of liverfluke <i>Fasciola</i> spp. Continuation....	Dr. P. D. Pawar
16	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of liver fluke <i>Dicrocoelium</i> spp., <i>Opisthorchis</i> spp. and Intestinal fluke <i>Fasciolopsis</i> spp.	Dr. P. D. Pawar
17	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of lung flukes (<i>Paragonimus</i> spp.), oviduct fluke (<i>Prosthogonimus</i> spp.) and <i>Echinostoma</i> spp.	Dr. P. D. Pawar
18	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Amphistomes, <i>Paramphistomum</i> , <i>Cotylophoron</i> , <i>Calicophoron</i> , <i>Gastrothylax</i> , <i>Fischoedirus</i> , <i>Carneyurus</i> , <i>Gastrodiscus</i> , <i>Gastrodiscoides</i> , <i>Psuedodiscus</i> and <i>Gigantocotyle</i> spp. and immature amphistomiasis	Dr. P. D. Pawar
19	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Amphistomes, <i>Paramphistomum</i> , <i>Cotylophoron</i> , <i>Calicophoron</i> , <i>Gastrothylax</i> , <i>Fischoedirus</i> , <i>Carneyurus</i> , <i>Gastrodiscus</i> , <i>Gastrodiscoides</i> , <i>Psuedodiscus</i> and <i>Gigantocotyle</i> spp. and immature amphistomiasis continuation.....	Dr. P. D. Pawar
20	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of blood flukes <i>Schistosoma nasale</i> spp.	Dr. P. D. Pawar

21	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of flukes causing cercarial dermatitis and visceral (hepato-intestinal) schistosomiasis (<i>Schistosoma spindale</i> , <i>S.indicum</i> , <i>S.incognitum</i>)	Dr. P. D. Pawar
22	Study on general characters of cestodes and larval metacestodes of tapeworms	Dr. P. D. Pawar
23	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of equine tapeworms (<i>Anoplocephala</i> , <i>Paranoplocephala</i> spp.)	Dr. P. D. Pawar
24	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of ruminant tapeworms (<i>Moniezia</i> , <i>Avitellina</i> , <i>Stilesia</i> & <i>Thysaneizias</i> spp.)	Dr. P. D. Pawar
25	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of poultry tapeworms (<i>Davainea</i> , <i>Cotugnia</i> , <i>Raillietina</i> , <i>Amoebotaeina</i> , <i>Choanotaenia</i> & <i>Hymenolepis</i> spp.)	Dr. P. D. Pawar
26	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of dog tapeworms (<i>Dipylidium</i> , <i>Taenia</i> spp.)	Dr. P. D. Pawar
27	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Human tapeworms (<i>Taenia saginata</i> and <i>Taenia solium</i>)	Dr. P. D. Pawar
28	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of dog tapeworms (<i>Multiceps</i> , <i>Echinococcus</i> spp.)	Dr. P. D. Pawar
29	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Broad fish tapeworm (<i>Diphyllbothrium</i> , <i>Spirometra</i> spp.), Dwarf tapeworm (<i>Hymenolepis</i> spp.)	Dr. P. D. Pawar
30	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of <i>Ascaris</i> spp.	Dr. P. D. Pawar
31	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and	Dr. P. D. Pawar

	general control measures including treatment of <i>Parascaris</i> and <i>Oxyuris</i> spp.	
32	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of <i>Toxocara</i> spp.	Dr. P. D. Pawar
33	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of <i>Toxascaris</i> spp.	Dr. P. D. Pawar
34	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of <i>Ascaridia</i> and <i>Heterakis</i> spp.	Dr. P. D. Pawar
35	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Bursate worms <i>Strongyloides</i> and <i>Strongylus</i> spp.	Dr. P. D. Pawar
36	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Bursate worms <i>Strongylus</i> spp.	Dr. P. D. Pawar
37	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Bursate worms <i>Strongylus</i> contd., <i>Chabertia</i> and <i>Syngamus</i> spp.	Dr. P. D. Pawar
38	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Bursate worm <i>Oesophagostomum</i> spp.	Dr. P. D. Pawar
39	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of kidney worm (<i>Stephanurus</i> spp., <i>Dioctyophyma</i> spp.)	Dr. P. D. Pawar
40	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of hookworms (<i>Ancylostoma</i> spp., <i>Agriostomum</i> spp.)	Dr. P. D. Pawar
41	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of hookworm <i>Bunostomum</i> spp., <i>Trichostrongylus</i> spp.	Dr. P. D. Pawar

42	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of hookworm <i>Oestertagia</i> spp., <i>Cooperiaspp.</i> , <i>Nematodirus</i> spp.	Dr. P. D. Pawar
43	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of stomach worms <i>Haemonchus</i> spp. <i>Mecistocirrus</i> spp.	Dr. P. D. Pawar
44	Comprehensive study on GI nematodes of ruminants and their integrated management along with anthelmintic therapy	Dr. P. D. Pawar
45	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of lung worms <i>Dictyocaulus</i> spp., <i>Mullerius</i> spp., <i>Protostrongylus</i> spp., <i>Metastrongylus</i> spp.	Dr. P. D. Pawar
46	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of tissue round worms <i>Draschiaspp.</i> , <i>Habronemaspp.</i> , <i>Theleziasspp.</i>	Dr. P. D. Pawar
47	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of tissue round worms <i>Spirocerca</i> , <i>Gongylonema</i> , <i>Physaloptera</i> , <i>Gnathostoma</i> spp.	Dr. P. D. Pawar
48	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of Filarial worms <i>Dirofilaria</i> , <i>Parafilariaspp.</i>	Dr. P. D. Pawar
49	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of filarial worms <i>Onchocerca</i> , <i>Setaria</i> , <i>Stephanofilariaspp.</i>	Dr. P. D. Pawar
50	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of guinea worm <i>Dracunculusspp.</i>	Dr. P. D. Pawar
51	Salient morphological features of diagnostic importance, life cycle, transmission, pathogenesis, symptoms, epidemiology, diagnosis and general control measures including treatment of guinea worm <i>Trichinella</i> and <i>Trichuris</i> spp.	Dr. P. D. Pawar
52	Study of <i>Capillaria</i> , <i>Acantocephala</i> & General principles of control of helminthic diseases by adapting physical, chemical, biological control (Integrated Parasite Control, IPC)	Dr. P. D. Pawar

53	Antihelminthic resistance and its types	Dr. P. D. Pawar
54	Antihelminthic resistance and its types continuation.....	Dr. P. D. Pawar
55	General description and characterization of arthropods, Characterization of Class Insecta& Class Arachnida.	Dr. P. D. Pawar
56	Classification of Insecta, Development of Insects, Metamorphosis, Types of Metamorphosis – Complete & Incomplete, Types of Larvae & Pupae	Dr. P. D. Pawar
57	Study of <i>Culicoides</i> spp. , <i>Simulium</i> spp and <i>Phlebotomus</i> spp.:	Dr. P. D. Pawar
58	Study of Characterization , Classification of Family <i>Culicidae</i> and <i>Culex Anopheles</i> & <i>Aedes</i> spp.	Dr. P. D. Pawar
59	Study of <i>Tabanus</i> , <i>Haematopota</i> & <i>Chrysops</i> spp.	Dr. P. D. Pawar
60	Study of <i>Musca</i> , <i>Stomoxys</i> , <i>Haematobia</i> & <i>Sarcophaga</i> spp.	Dr. P. D. Pawar
61	Blow fly myiasis: Study of <i>Lucilia</i> , <i>Calliphora</i> , <i>Chrysomyia</i> and <i>Phormia</i> spp.	Dr. P. D. Pawar
62	Screw worm fly myiasis: Study of <i>Chrysomyia</i> spp.& types of myiasis – Obligatory, Facultative & Accidental	Dr. P. D. Pawar
63	Study of <i>Oestrus ovis</i> , <i>Gasterophilus</i> , <i>Cobboldia</i> & <i>Cephalopinnas</i> spp.	Dr. P. D. Pawar
64	Study of <i>Hypoderma</i> , <i>Hippobosca</i> , <i>Pseudolynchias</i> spp. & <i>Melophagus</i> ovinus.	Dr. P. D. Pawar
65	Study of Fleas – <i>Ctenocephalides</i> spp., <i>Pulex</i> spp., <i>Echidnophaga</i> gallinacea& <i>Xenopsylla</i> spp.	Dr. P. D. Pawar
66	Study of Lice - Anopleura- <i>Haematopinus</i> spp., <i>Linognathus</i> spp.& <i>Mallophaga</i> – <i>Damalinia</i> spp., <i>Heterodoxus</i> spp. & <i>Trichodectes</i> spp. <i>Menopon</i> gallinae, <i>Lipeurus</i> caponis& <i>Menacanthus</i> stramineus& Bugs (<i>Cimex</i> lectularius)	Dr. P. D. Pawar
67	Study of Gamasid mites – <i>Dermanyssus</i> spp., <i>Ornithonyssus</i> spp. & Soft ticks – <i>Ornithodoros</i> spp. & <i>Otobius</i> spp.	Dr. P. D. Pawar
68	Study of <i>Argas</i> persicus	Dr. P. D. Pawar
69	Study of hard ticks- <i>Boophilus</i> , <i>Rhipicephalus</i> , <i>Haemaphysalis</i> , <i>Hyalomma</i> , <i>Amblyomma</i> , <i>Ixodes</i> & <i>Dermacentor</i> spp.	Dr. P. D. Pawar

70	Follicular Mange – <i>Demodex</i> spp.	Dr. P. D. Pawar
71	Study of <i>Sarcoptes scabiei</i> , <i>Notoedrescati</i> , <i>Cnemidocoptes</i> , <i>Psoroptes</i> , <i>Otodectes</i> , <i>Chorioptes</i> spp.	Dr. P. D. Pawar
72	Study of <i>Linguatula</i> spp. & acaricide and insecticide resistance	Dr. P. D. Pawar
73	General description of protozoa, Differentiation from Protophyta	Dr. P. D. Pawar
74	Nutrition, excretion, respiration & locomotion in protozoa	Dr. P. D. Pawar
75	Reproduction in protozoa & classification of protozoa	Dr. P. D. Pawar
76	Study of <i>Entamoeba</i> spp.	Dr. P. D. Pawar
77	General features of Zoomastigophora, its Orders & Family <i>Trypanosomatidae</i> . Life-cycle stages of the family, Genera of <i>Trypanosomatidae</i> , pattern of developmental cycle of the members of the family	Dr. P. D. Pawar
78	Genus <i>Trypanosoma</i> , Types of Development – Salivaria & Stercoraria – Subgenera & species of <i>Trypanosoma</i> , Study of cyclically transmitted Salivarian <i>Trypanosoma</i> spp.	Dr. P. D. Pawar
79	Study of Stercorarian <i>Trypanosoma</i> spp. (<i>T. cruzi</i> & <i>T. theileri</i>)	Dr. P. D. Pawar
80	Study of Mechanically transmitted <i>Trypanosoma evansi</i> : Life cycle pathogenesis and Symptoms	Dr. P. D. Pawar
81	Study of Mechanically transmitted <i>Trypanosoma evansi</i> : Diagnosis, treatment and control and <i>Trypanosoma equiperdum</i>	Dr. P. D. Pawar
82	Study of visceral leishmaniosis – <i>Leishmania</i> spp.	Dr. P. D. Pawar
83	Study of cutaneous leishmaniosis – <i>Leishmania tropica</i> & <i>Giardia</i> spp.	Dr. P. D. Pawar
84	Study of bovine trichomoniosis – <i>Trichomonas foetus</i>	Dr. P. D. Pawar
85	Study of avian trichomoniosis – <i>Trichomonas gallinae</i> & <i>Histomonas meleagridis</i>	Dr. P. D. Pawar
86	General features of Phylum Apicomplexa, Class Sporozoea, Subclass Coccidia, Order Eucoccidiida & Piroplasmida. Suborders of	Dr. P. D. Pawar

	Eucoccidiida – Eimerina, haemosporina&Adeilina. Family <i>Eimeriidae</i> & its Genera – <i>Eimeria</i> & <i>Isospora</i> spp.	
87	General features of Phylum Apicomplexa, Class Sporozoea, Subclass Coccidia, Order Eucoccidiida&Piroplasmida. Suborders of Eucoccidiida – Eimerina, haemosporina&Adeilina. Family <i>Eimeriidae</i> & its Genera – <i>Eimeria</i> & <i>Isospora</i> spp. Continuation...	Dr. P. D. Pawar
88	General pattern of life-cycle of coccidia	Dr. P. D. Pawar
89	Study of Poultry coccidiosis – <i>Eimeria tenella</i> & <i>Eimeria necatrix</i>	Dr. P. D. Pawar
90	Study of Poultry coccidiosis – <i>Eimeria acervulina</i> , <i>Eimeria maxima</i> & <i>Eimeria brunetti</i>	Dr. P. D. Pawar
91	Epidemiology, diagnosis, treatment, control & immunity of poultry coccidiosis	Dr. P. D. Pawar
92	Study of bovine coccidiosis	Dr. P. D. Pawar
93	Study of ovine, caprine, dog, cat and pig coccidian	Dr. P. D. Pawar
94	Study of <i>Cryptosporidium</i> spp.	Dr. P. D. Pawar
95	Study of <i>Neospora caninum</i>	Dr. P. D. Pawar
96	Study of <i>Sarcocystis</i> spp.	Dr. P. D. Pawar
97	Study of <i>Toxoplasma</i> spp.	Dr. P. D. Pawar
98	Study of avian malaria – <i>Plasmodium gallinaceum</i> & <i>Plasmodium bubalis</i>	Dr. P. D. Pawar
99	Study of <i>Haemoproteus columbae</i> & <i>Hepatozoon canis</i> .	Dr. P. D. Pawar
100	General features of Babesia & Life-cycle patterns of <i>Babesia</i> spp.	Dr. P. D. Pawar
101	In general pathogenesis of <i>Babesia</i> spp. & Study of bovine piroplasmosis- <i>Babesia bigemina</i> & <i>Babesia bovis</i>	Dr. P. D. Pawar
102	Study of canine piroplasmosis (<i>Babesia canis</i> & <i>Babesia gibsoni</i>) & equine piroplasmosis (<i>Babesia caballi</i> & <i>Babesia equi</i>)	Dr. P. D. Pawar

103	Study of <i>Theileria</i> spp.	Dr. P. D. Pawar
104	Continuation of Theileriosis	Dr. P. D. Pawar
105	Study of <i>Balantidium coli</i>	Dr. P. D. Pawar
106	Study of <i>Ehrlichia</i> spp. and <i>Anaplasma</i> spp.	Dr. P. D. Pawar
107	Protozoan Vaccines	Dr. P. D. Pawar
108	Resistance to antiprotozoan drugs	Dr. P. D. Pawar

Practical Schedule for Veterinary Parasitology offered in Third Year of B.V.Sc & A.H. Degree Program as per the MSVE-2016

	Topic to be covered in Practicals (Practical Schedule)	Course Teacher
1	Introduction to Helminthology	Dr. P. D. Pawar
2	Methods of collection, fixation, preservation and mounting of helminth parasites	Dr. P. D. Pawar
3	Faecal samples analysis – Gross and Qualitative analysis	Dr. P. D. Pawar
4	Faecal samples analysis – Gross and Qualitative analysis continuation....	Dr. P. D. Pawar
5	Faecal sample analysis – Quantitative analysis	Dr. P. D. Pawar
6	Faecal culture techniques	Dr. P. D. Pawar
7	Micrometry - Measurement of microscopic object-Demonstration	Dr. P. D. Pawar
8	Study of life cycle chart and life cycle stages of Digenetic trematodes and types of cercaria	Dr. P. D. Pawar
9	Study of <i>Fasciola</i> , <i>Fasciolopsis</i> spp. and its intermediate host	Dr. P. D. Pawar
10	Study of <i>Dicrocoelium</i> , <i>Opisthorchis</i> , <i>Paragonimus</i> , <i>Prosthogonimus</i> , <i>Echinostoma</i> spp. and its intermediate host	Dr. P. D. Pawar
11	Study of <i>Paramphistomum</i> , <i>Cotylophoron</i> , <i>Calicophoron</i> , <i>Gigantocotyle</i> , <i>Gastrothylax</i> , <i>Fischoederius</i> , <i>Gastrodiscus</i> , <i>Pseudodiscus</i> spp. and its intermediate host	Dr. P. D. Pawar
12	Study of <i>S.spindale</i> , <i>S.indicum</i> , <i>S.incognitum</i> & <i>Schistosoma nasalis</i>	Dr. P. D. Pawar
13	Study of <i>Anoplocephala</i> , <i>Paranoplocephala</i> and <i>Moniezia</i> spp.	Dr. P. D. Pawar

14	Study of <i>Avitellina</i> , <i>Stilesia</i> , <i>Thysaniezia</i> spp.	Dr. P. D. Pawar
15	Study of <i>Davainea</i> , <i>Cotugnia</i> , <i>Raillietina</i> , <i>Amoebotaenia</i> , <i>Choanotaenia</i> , <i>Hymenolepis</i> spp.	Dr. P. D. Pawar
16	Study of <i>Taenia</i> spp	Dr. P. D. Pawar
17	Study of Bladder worms: <i>Cysticercus</i> , <i>Coenurus</i> , <i>Hydatid</i> , <i>Cysticercoid</i> , <i>Strobilocercus</i> spp.	Dr. P. D. Pawar
18	Study of <i>Dipylidium</i> , <i>Echinococcus</i> , <i>Diphylobothrium latum</i> , <i>Spirometra</i> spp.	Dr. P. D. Pawar
19	Study of <i>Ascaris</i> , <i>Parascaris</i> , <i>Toxocara</i> , <i>Toxascaris</i> spp	Dr. P. D. Pawar
20	Study of <i>Ascaridia</i> , <i>Heterakis</i> <i>Oxyuris</i> spp.	Dr. P. D. Pawar
21	Study of <i>Strongylus</i> and <i>Strongyloides</i> spp.	Dr. P. D. Pawar
22	Study of <i>Stephanurus</i> , <i>Diectophyma</i> , <i>Syngamus</i> , <i>Ancylostoma</i> , <i>Bunostomum</i> , spp.	Dr. P. D. Pawar
23	Study of <i>Haemonchus</i> , <i>Mecistocirrus</i> , <i>Trichostrongylus</i> , <i>Ostertagia</i> , <i>Cooperia</i> and <i>Nematodirus</i> , spp.	Dr. P. D. Pawar
24	Study of <i>Chabertia</i> , <i>Oesophagostomum</i> , <i>Dictyocaulus</i> , <i>Muellerius</i> , <i>Protostrongylus</i> and <i>Metastrongylus</i> spp.	Dr. P. D. Pawar
25	Study of <i>Habronema</i> , <i>Draschia</i> , <i>Spirocerca</i> , <i>Gongylonema</i> , <i>Physaloptera</i> , <i>Gnathostoma</i> , <i>Thelazia</i> spp.	Dr. P. D. Pawar
26	Study of <i>Dirofilaria</i> , <i>Parafilaria</i> , <i>Onchocerca</i> , <i>Setaria</i> and <i>Stephanofiliaria</i> spp.	Dr. P. D. Pawar
27	Detection of microfilaria by wet blood smear and Knott's method	Dr. P. D. Pawar
28	Study of <i>Trichuris</i> and <i>Trichinella</i> spp.	Dr. P. D. Pawar
29	Visit to Slaughter house or necropsy/PM	Dr. P. D. Pawar
30	Field Visit for deworming camp/ awareness camp/adopted village	Dr. P. D. Pawar
31	Visit to Slaughter house or necropsy/PM	Dr. P. D. Pawar
32	Screening of College farm for helminths	Dr. P. D. Pawar
33	Screening of College farm for helminths	Dr. P. D. Pawar
34	Visit to Poultry farm for screening of parasites	Dr. P. D. Pawar
35	Antiparasitic drugs their formulations, methods of administration/application	Dr. P. D. Pawar
36	Visit to Poultry farm for screening of parasites	Dr. P. D. Pawar
37	Collection and preservation of arthropods.	Dr. P. D. Pawar

38	Processing of arthropods	Dr. P. D. Pawar
39	Proboscis of Cockroach, Mosquito, <i>Tabanus</i> , <i>Musca</i> , <i>Stomoxys</i> & <i>Hippobosca</i> spp.	Dr. P. D. Pawar
40	Proboscis of bed bug, flea, biting lice, sucking lice and ticks	Dr. P. D. Pawar
41	Study of Mosquitoes-Culex, Anopheles & Aedes spp.	Dr. P. D. Pawar
42	Study of <i>Culicoides</i> spp., <i>Phlebotomus</i> spp. & <i>Simulium</i> spp.	Dr. P. D. Pawar
43	Study of <i>Tabanus</i> spp., <i>Haematopota</i> , <i>Chrysops</i> spp.	Dr. P. D. Pawar
44	Study of <i>Musca</i> , <i>Stomoxys</i> , <i>Haematobia</i> & <i>Sarcophaga</i> spp.	Dr. P. D. Pawar
45	Study of <i>Lucilia</i> spp., <i>Calliphora</i> spp., <i>Chrysomyia</i> spp. <i>Phormia</i> spp.	Dr. P. D. Pawar
46	Study of <i>Callitroga</i> spp., <i>Oestrus ovis</i> , <i>Gasterophilus</i> , <i>Cobboldia</i> , <i>Cephalopinna</i> & <i>Hypoderma</i> spp.	Dr. P. D. Pawar
47	Study of <i>Hippobosca</i> , <i>Pseudolynchia</i> spp. & <i>Melophagus ovinus</i> .	Dr. P. D. Pawar
48	Study of <i>Ctenocephalides</i> , <i>Pulex</i> spp., <i>Echidnophaga gallinacea</i> , <i>Xenopsylla</i> spp. & <i>Cimex lectularius</i>	Dr. P. D. Pawar
49	Study of Avian lice	Dr. P. D. Pawar
50	Screening of College farm for arthropods	Dr. P. D. Pawar
51	Study of Mammalian lice	Dr. P. D. Pawar
52	Study of <i>Dermanyssus</i> , <i>Ornithonyssus</i> spp. <i>Argas persicus</i> , <i>Ornithodoros</i> & <i>Otobius</i> spp.	Dr. P. D. Pawar
53	Study of <i>Boophilus</i> spp., <i>Rhipicephalus</i> spp. & <i>Haemaphysalis</i> spp.	Dr. P. D. Pawar
54	Study of <i>Hyalomma</i> spp., <i>Amblyomma</i> spp. <i>Dermacentor</i> spp. & <i>Ixodes</i> spp.	Dr. P. D. Pawar
55	Skin Scraping Examination	Dr. P. D. Pawar
56	Study of <i>Demodex</i> spp., <i>Sarcoptes scabiei</i> , <i>Notoedres cati</i> , <i>Psoroptes</i> , <i>Otodectes</i> , <i>Cnemidocoptes</i> & <i>Chorioptes</i> spp.	Dr. P. D. Pawar
57	Diagnosis of protozoan infection Part I: Enteric and tissue dwelling protozoan infections.	Dr. P. D. Pawar
58	Diagnosis of protozoan infection Part II: Haemoprotozoan infections.	Dr. P. D. Pawar
59	Study of <i>Entamoeba</i> spp.	Dr. P. D. Pawar
60	Study of <i>Trypanosoma</i> spp. and <i>Leishmania</i> spp.	Dr. P. D. Pawar
61	Study of <i>Tritrichomonas</i> spp., <i>Trichomonas</i> spp. <i>Histomonas meleagridis</i> and <i>Giardia</i> spp.	Dr. P. D. Pawar

62	Study of Life cycle of Poultry coccidia.	Dr. P. D. Pawar
63	Study of oocysts of common species of coccidia of bovines, ovine, caprine, dog, cat and pig. Study of <i>Cryptosporidium</i> spp.	Dr. P. D. Pawar
64	Technique for sporulation of coccidian oocysts.	Dr. P. D. Pawar
65	Study of <i>Sarcocystis</i> spp. with its life cycle chart.	Dr. P. D. Pawar
66	Study of <i>Toxoplasma gondii</i> & <i>Neospora caninum</i> with life cycle charts	Dr. P. D. Pawar
67	Study of <i>Plasmodium gallinaceum</i> and its life cycle chart/ human and bubaline malaria	Dr. P. D. Pawar
68	Study of <i>Haemoproteus columbae</i> , <i>Hepatozoon canis</i> and its life cycle chart.	Dr. P. D. Pawar
69	Study of <i>Babesia</i> spp. of cattle and dog with life cycle chart	Dr. P. D. Pawar
70	Screening of College farm for protozoa	Dr. P. D. Pawar
71	Study of <i>Theileria</i> spp. with life cycle chart and <i>Balantidium coli</i>	Dr. P. D. Pawar
72	Study of <i>Anaplasma</i> spp., <i>Ehrlichia</i> spp.	Dr. P. D. Pawar

Books for reference:

5. Helminths, Arthropods and protozoa of domestic animals- E.J.L. Soulsby latest edition
6. Textbook of Veterinary Parasitology- B.B. Bhatia *et al.* ;latest edition
7. Parasitology for Veterinarians- Georgi; latest edition
8. Appraisal of Veterinary Parasitology on Internet

During XXXVIII (38th) BoS in Veterinary Parasitology held at Maharashtra Animal & Fishery Sciences University, online on 27.12.2021 at 3.00 P.M.[ONLINE] course distribution has been done. Said distribution has been revised keeping in view the changes as per MAFSU PG Academic Regulations 2022 to be implemented during current Academic year.

Courses offered for PG Studies in Veterinary Parasitology

Semester	Course No	Title	Credit	Credits in a semester	Course Teacher
I	VPA 501	Platyhelminths-I*	1+1	Maximum 20	Dr. P. D. Pawar
	VPA 502	Platyhelminths-II*	1+1		Dr. P. D. Pawar
	VPA 503	Nematohelminths and Acanthocephala*	2+1		Dr. P. D. Pawar

	VPA 506	Diagnostic Parasitology OR any other course from major subject of 2 to 3 credit hrs	0+2		Dr. P. D. Pawar
	Minor		3 or 4 or 5 credit hrs		Dr. P. D. Pawar
	Supporting		3		Dr. P. D. Pawar
					Dr. P. D. Pawar
II	VPA 504	Arthropod parasites*	2+1	Maximum 20	Dr. P. D. Pawar
	VPA 505	Parasitic protozoa*	2+1		Dr. P. D. Pawar
	VPA 507	Clinical Parasitology	1+1		Dr. P. D. Pawar
	VPA 508, VPA 509, VPA 510 VPA 511	Any one course from following Management of Parasitic diseases Immunoparasitology Parasitic zoonoses Parasites of wild life	1+1 2+1 2+0 1+1		Dr. P. D. Pawar
	Minor		3 or 4 or 5 credit hrs		Dr. P. D. Pawar
	Supporting		3		Dr. P. D. Pawar
					Dr. P. D. Pawar
III	VPA 508, VPA 509,	Any one course from following Management of Parasitic diseases	1+1 2+1	Maximum 20	Dr. P. D. Pawar

	VPA 510 or VPA 511	Immunoparasitology Parasitic zoonoses Parasites of wild life	2+0 1+1		
	VPA 591	Masters Seminar*	1+0		Dr. P. D. Pawar
	VPA 599	Masters Research	10		Dr. P. D. Pawar
	Common courses		5		Dr. P. D. Pawar
					Dr. P. D. Pawar
IV	VPA 599	Masters Research	20	20	Dr. P. D. Pawar
					Dr. P. D. Pawar

***Core Courses**

7. Academic Calendar – UG, PG, PhD -Year wise / Semester Wise
8. College Classes Time Table :UG, PG , PhD - Year wise / Semester Wise
9. Examination Time Table – UG, PG , PhD - Semester / Year wise - Theory and Practical
10. Result –UG, PG , PhD - Semester Wise / Year Wise