

Course Objectives:

The objectives of the course are:-

1. To provide knowledge about insect vectors, disease borne pests of veterinary and human importance
2. To impart knowledge about their control
3. To Understand their life cycles as they carry viruses and other organisms during transmission of diseases

Course Learning Outcomes:

Upon successful completion of the course, the student will be able to:

1. Acquire the firm knowledge of important insect vectors and disease borne pests of veterinary and human importance.
2. Understand their life cycles during transmission of diseases for control.
3. Analyze about their control

Course Contents:

Life histories, pathogens and control of insects of veterinary and medical importance. Phylum, Arthropoda; Anatomy, Development-Classification. Class, Insecta: Anatomy-Development-Classification. Order, Orthoptera: Cockroaches. Order, Coleoptera; Order, Diptera: Classification – Suborder, Nematocera, Family Ceratopogonidae: Culicoides; Family, Simuliidae: Simulium; Family, Psychodidae: Phlebotomus; Family, Culicidae: Culex-Aedes-Anopheles; Suborder, Brachycera; Family, Tabanidae: Tabanus-Haematopota-Chrysops-Pangonia; Suborder, Cyclorrhapha; Section, Schizophora; Superfamily, Calypteratae; Family, Cestridae: Gastrophilus-Cestrus-Hypoderma-Dermatobia; Family, Anthomyidae: Musca-Stomoxys-Lyperosia-Glossina. Glossina and disease; Family, Tachinidae: Lucilia-Calliphora-Phormia-Chrysomyia-Callitroga. Calliphorine myiasis of sheep. Screw-worms of man, cattle and other animals. Cordylobia-Boopunus. Family, Sarcophagidae: Sarcophaga-Wohlfahrtia. Section, Pupipara; Family, Hippoboscidae: Hippobosca-Melophagus-Pseudolynchia. Order, Hemiptera. Family, Cimicidae: Cimex; Family, Triatomidae, Order, Phthiraptera (Lice). Suborder, Anoplura (Siphunculata). Family, Haematopinidae: Haematopinus. Family, Linognathidae: Linognathus-Solenopotes. Family, Hoplopleuridae: Polyplacinae. Family, Pediculidae: Pediculus-Phthirus. Suborder, Mallophaga. Superfamily, Ischnocera. Cuclotogaster-Lipeurus-Goniodes-Goniocotes-Chelopistes-Columbicola-Anaticola-Damalinia-Tricodectes-Felicola. Superfamily, Amblycera, Menopon-Menacanthus-Trinoton-Gyropus-Gliricola-Trimenopon-Heterodoxus. Effects of lice on their hosts. Control and treatment of lice. Order, Siphonaptera: Ctenocephalides-Ceratophyllus-Pulex-Xenopsylla-Nosopsyllus-Echidnophaga. Control of fleas. Class, Archanida. Classification; Order, Acarina, Suborder, Mesostigmata, Dermanyssus-Ornithonyssus-Allodermanyssus-Echinolaelaps-Pneumonyssus. Suborder, Ixodoidea. Family, Argasidae: Argas-Otobius-Ornithodoros.

Teaching-Learning Strategies

Teaching will be a combination of class lectures, class discussions, and group work. Short videos /films will be shown on occasion.

Assignments

The sessional work will be a combination of written assignments, class quizzes, presentation, and class participation/attendance.

Assessments and Examination

Sessional Work:	25 marks
Midterm Exam:	35 marks
Final term Exam:	40 marks

Books Recommended:

1. Monning’s Veterinary Helminthology and Entomology.
2. Bailliere, Tindall and Co. X, London.

3. Metcalf and Flint: Useful and Destructive Insects. McGraw Hill.
4. Chandler and Read: Introduction to Parasitology. Wiley Toppen.
5. Medical Entomology, 2000.

UZO-532 Medical and Veterinary Entomology-I (Lab.)

Cr. (1)

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3. Analyze about their control

Course Contents:

Collection of insects of veterinary importance; and their identity.

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