

**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. Family, Ixodidae: Ixodes-Boophilus-Margaropus-Hyalomma-Rhipicephalus-Haemaphysalis-Dermacentor-Rhipicephalus-Amblyomma-Aponomma: Ticks as parasites. Suborder, Trombidiformes. Family, Trombiculidae: Trombicula-Neoschongastida. Family, Pediculoididae: Pediculoides. Family, Demodicidae: Demodex. Family, Cheyletidae: Psorergates-Syringophilus-Cheyletiella. Family, Myobiidae: Myobia-Harpirhynchus. Suborder, Sarcoptiformes. Family Sarcoptidae: Sarcoptes-Cnemidocoptes-Notoedres. Family, Psoroptidae: Psoroptes-Chorioptes-Otodectes. Family, Cytoditidae: Cytodites. Family, Laminosioptidae: Laminosioptes. Family, Epidermoptidae.Family.Listrophoridae. Feather-Mites: Family, Analgesidae. Family, Dermoglyphidae.Family, Proctophylloidea.Order, Pentastomida. Family, Porcephalidae: Linguatula-Porocephalus. Lujurious Non-parasitic Arthropoda. Myriapoda-Insecta: Piercing or biting species; stinging species; nettling species; cryptotoxic species. Arachnida: Scorpions, Solifuge-Araneide-Acarina: Mites in foodstuffs.

**Technique and Diagnosis:** Collection and preservation of helminthes. Collection and preservation of arthropod parasites.Making of permanent preparations.Clinical Diagnostic methods. 1. The outside of the body. 2. Excretions. Nasal discharge and vomit. Faeces: (a) Examination for and recovery of, Adult worms and larvae; (b) Microscopical examination and methods for counting worm eggs and worms; (c) cultivation of worm larvae in faeces. 3. Blood examination for larvae. 4. Allergic reactions, (i) Intradermal reactions, (ii) Complement fixation, (iii) Precipitin reaction. Host parasite list.Infective larvae of some nematodes of sheep.Bibliography.Alphaetical index.

### **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-534 Medical and Veterinary Entomology-II (Lab.) Cr. (1)**

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2. Understand their life cycles during transmission of diseases for control.
3. Analyze about their control

### **Course Contents:**

Preservation and making of permanent preparations of insects of veterinary importance; and their identity.

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### **Assignments**

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### **Assessments and Examination**

Sessional Work: 25 marks

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Final term Exam: 40 marks