

CODE BSPH-404 ENTOMOLOGY AND PARASITOLOGY

Course Objectives:

- i. List the medically important arthropods
- ii. Describe the principles of arthropod control
- iii. Understand the common parasitic infections of public health importance

Course Contents:

Entomology

- i. Common arthropod borne diseases
- ii. Arthropods of medical importance (mosquito, flies, flees, ticks, mites and human lice)
- iii. Principles of arthropods control (environmental, chemical, biological and genetics)
- iv. Insecticides and their public health importance

Parasitology

i. Protozoa

- Plasmodium and malaria
- Entameobahistolytica and dysentery
- Giardia lamblia and giardiasis
- Trichomonas and trichomoniasis
- Leishmania and leishmaniasis

ii. Helminths

- Taeniasaginata, Ancylostomaduodenale, Ascaris, enterobiusvermicularis and worm infestation

iii. Ectoparasites

- Pediculushumanus and Head lice
- Sarcoptes scabiei and scabies

Recommended Books:

1. Gullan, P. J. & Cranston, P. S. (2010). The Insects: An Outline of Entomology. 4th edition. Wiley-Blackwell. A John Wiley & Sons, Ltd., Publication, UK.

2. Awastheir, V.B. (2009). Introduction to General and Applied Entomology. Scientific Publisher, Jodhpur, India.
3. Dhaliwal, G.S. (2007). An Outline of Entomology. Kalyani Publishers, Ludhiana.
4. Elzinga, R.J (2003). Fundamentals of Entomology. Prentice Hall.
5. Lohar, M.K. (2001). Introductory Entomology. Department of Entomology, Sindh Agriculture University Tandojam Sindh, Pakistan.
6. Roberts, L.S., & Janovy Jr, J. (8th Edition). (2009). Foundations of Parasitology, McGrawHill, New York. 701 pp. ISBN 978-0-07-302827-9. 2009.
7. Cheng, T. C. General parasitology.
8. Markell & Voges. Medical parasitology.
9. Janovy, R. Foundation of parasitology.
10. Burton, J. B. Human parasitology.