



The Islamia University of Bahawalpur

Department of Entomology

University College of Agriculture & Environmental Sciences

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ENT-505,

Insect Ecology

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THEORY

Overview of insect ecology; divisions of ecology; habitat and niche; intra and interspecific interactions; natural and agro-ecosystems; flow of energy in ecosystem; trophic relations: food chain, food web and food mesh concepts; ecological succession; population and its characteristics like natality, mortality, dispersal, key factors, density dependence and density independence, introduction to life tables and diversity indices.

PRACTICALS

Maintenance and measurement of temperature, humidity and light with different instruments; population estimation and construction of life tables

BOOKS RECOMMENDED

1. Bourtzis, K. and Miller, T. 2003. Insects Symbiosis. CRC Press.
2. Huffaker, C.B. and Robert, L.R. 1984. Ecological Entomology. Wiley Intersciences.
3. Price, P.W. 1984. Insect Ecology. John Wiley and Sons, N.Y.
4. Rockwood, L.L. 2006. Introduction to Population Ecology. Wiley, John & Sons.
5. Schowalter, T.D. 2006 Insect Ecology: An Ecosystem approach. 2nd Ed. Press is an imprint of Elsevier.
7. Symondson, W.O.C. and Liddell, J.E. 1996. The Ecology of Agricultural Pests, Biochemical Approaches. Chapman and Hall, London, UK.
8. Vandermeer, J.H. and Goldberg, D.E. 2003. Population Ecology: First Principles, Princeton University Press.
9. Yazdani, S.S. and Agarwal, M.I. 1997. Elements of Insect Ecology. Narosa Publishing House, New Delhi.