



The Islamia University of Bahawalpur

Department of Entomology

University College of Agriculture & Environmental Sciences

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ENT-604, Apiculture

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Theory:

Introduction, importance, scope of apiculture industry, bee species and their biology, morphology, behavior and products, bee flora their distribution and flowering time; beekeeping equipment, seasonal management, uniting, dividing and preparation for shifting colonies; bee stings, queen rearing and swarming; pest and diseases of bees and their management; honey extraction; factors affecting honey yield; importance of bees in pollination; honey, its properties and uses; granulation, fermentation and storage of honey, uses of other bee products; beekeeping as an enterprise.

Practicals: Practicals demonstration of bee colonies, observation of colonies and different casts; beekeeping equipment's; preparation of frames and comb foundation for their hives; colony inspection; visit to apiaries.

Books Recommended:

1. Ahmad, R. 1979. A Guide to Bee Keeping in Pakistan. Extension Book.
2. Devillers, J., Phame, M. and Delege, M. 2002. Honey Bees.
3. Goodwin, R.N. and Van Eaton, C. 1999. Elimination of American Foulbrood without the use of Drugs. A PRACTICALS Manual for Bee Keepers. National Bee Keepers Association of New Zealand, Napier, New Zealand.
4. Hooper, T. 1991. Guide to Bees and Honey. BAS Printers Ltd. Hampshire, UK.