

SKILL ENHANCEMENT COURSES
SEC 1

APICULTURE / *Bee keeping*

(CREDITS 4)

Unit 1

Biology of Bees

- 1.1 Introduction to Apiculture, species of honey bees
- 1.2 Social Organization of Bee Colony
- 1.3 Life cycle of honey bee
- 1.4 Behavioural patterns (bees dance, swarming)

Unit 2

Rearing of Bees

- 2.1 Methods of bee keeping
- 2.2 Types of Beehives
- 2.3 Appliances
- 2.4 Bee foraging

Unit 3

Diseases and Enemies

- 3.1 Killer bees
- 3.2 Brood diseases
- 3.3 Acarine mite, dysentery, nosema
- 3.4 Varroa and wax moths

Unit 4

Bee Economy

- 4.1 Honey composition and uses
- 4.2 Bees wax and polish
- 4.3 Mead and its types
- 4.4 Propolis/medicinal products

SUGGESTED READINGS

- Prost, P. J. (1962). *Apiculture*. Oxford and IBH, New Delhi.
- Bisht D.S., *Apiculture*, ICAR Publication.
- Singh S., *Beekeeping in India*, Indian council of Agricultural Research, New Delhi.