

GOVERNMENT DEGREE COLLEGE BARAMULLA

Department of Zoology

SEMESTER – 1st

SKILL ENHANCEMENT COURSE (SEC)

Subject: Zoology

Title: APICULTURE

Course code: BZO22S102

(CREDITS (4): THEORY – 02, PRACTICALS -02)

Contact hours: 32 (T) + 32 (L)

Course Objectives: To impart skill regarding Apiculture and to promote it as a skill to harness the benefits of apiculture as cottage industry.

Learning outcomes:

After thoroughly understanding the course the student should be able to:

- learn basic Apiculture skills and demonstration and identification of different species of honey bees;
- Role of honey bees in the Agriculture and allied fields; and
- Importance of Honey bees in rural Economy.

THEORY (2 CREDITS)

Unit I: Bee Keeping I

(16 Hours)

- 1.1 Introduction and Historical background of Apiculture
- 1.2 Social organization in honey bees
- 1.3 Life cycle of honey bees
- 1.4 Role of Honey bee in Horticulture and Agriculture as potential pollinator (special reference to Kashmir)

Unit II: Bee Keeping II

(16 Hours)

- 2.1 Methods of bee keeping, modern Bee hives.
- 2.2 Bee keeping products: honey and bee wax
- 2.3 Enemies of honey bees
- 2.4 Apiculture as a potential Cottage industry.

PRACTICAL (2 CREDITS)

(32 Hours)

1. Morphological study of Honey Bee
2. Specimen study of different castes of honey bee
3. Collection and identification of indigenous honey bee species
4. Life cycle study of honey bees

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5. Temporary mount preparation of mouth parts of honey bees
6. Temporary mount preparation of sting apparatus of honey bees
7. Visit to an apiary.

SUGGESTED READINGS

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