

Certificate course in Honey Production

Aims & Objective:

1. Students will be able about scientific bee keeping under post-harvest management of beekeeping, beehive products, including collection, processing, storage, marketing, value addition
2. Increasing the employment opportunity in rural sector and thus enhancing the ancillary income of the Students & beekeepers
3. To make farmers aware about pollination services for local food crops and domestic markets besides enhancing productivity of various crops through bee pollination.
4. Promote growth of beekeeping industry for income & employment generation for farm and non-farm households

Focus:

To extract the Honey from honey comb by Scientific method and generate Income.

Name of the course: Certificate Course in Honey Production

· **Level:** Certificate

· **Stream:** Science, Art or any stream

Department : Zoology

Eligibility Criteria: 10+2+3

Duration: 06 months i. e 180 days

Language: English/Marathi

Intake: 25 seats

Fees: Rs.250/ for Regular and 325/- External

Selection /Admission Criteria: First come first serve

Attendance: 90%

Lecture/practical timing: As per time table

Academic calendar for the course: Three days in a week (Three theory periods & 1day practical)

Available infrastructure: Well-equipped laboratory, Bee Hive Unit

Teaching Staff: Qualified, Experienced Professors & Guest Lecturers will be invited.

Non-teaching staff: 1 lab assistant & 1 lab attendants.

Examination structure & schedule:

At the end of course the examination will be conducted. Its notice & time table will be displayed for communication to the students at least before 15 days of the date of examination.

1. Course Theory paper (objective/short answer type) = 50 marks, Two hours duration.
Marking scheme & Award of grades: Average of the marks obtained in paper will be calculated.

i) Below 40 % = C' grade – Fail;

ii) 40- 49 % = C +' grade;

iii) 50-55 % = B grade;

iv) 55-59 % = B+ grade;

v) 60-74 % = A grade

vi) Above 75 % = A + Grade

Award of Certificate carrying grades: after successful completion of course colourful certificate indicating grade will be awarded to the candidate.

Syllabus

UNIT – I

1. To study the morphology of Honeybees and Identification of different species and classes of Honey bees.
2. To Study different stages in life cycle of Honey bees.
3. Identification of Queen cells, Drone cells & Brood.
4. Bee keeping: Tools and Equipment.

UNIT – II

1. Basic requirements of Tools for starting bee keeping:
2. Introduction to types of bee
3. Bee keeping unit - Handling of frames with colonies
4. Honey Processing and Bee Hive Products

UNIT – III

1. Honey extraction & handling - Quality control standards - Honey testing kit.
2. Processing of honey. Other valuable by products of honey bees Bee venom & Royal jelly extraction.
3. Economics of bee keeping.
4. Economics in small scale and large scale bee keeping.

UNIT – IV

1. Economic Value of Commercial Beekeeping.
2. Preparing bankable bee keeping project:
3. Steps involved in starting a beekeeping project
4. Funding sources for beekeeping projects.