SHRI GURU RAM RAI UNIVERSITY

[Estd. by Govt. of Uttarakhand, vide Shri Guru Ram Rai University Act no. 03 of 2017 & recognized by UGC u/s (2f) of UGC Act 1956]



COURSE SYLLABI

For Value Added Course Programme

ON

"Agripreneurship Development in Beekeeping"

School of Agricultural Sciences

Effective from Academic Session

Pathri Bagh, Dehradun-248001, Uttarakhand

VALUE ADDED COURSE (VAC) Agripreneurship Development in Beekeeping

Course code: VCSAS004

Duration: 30 Hrs

Name of course Coordinator	Office Address	Office Number	Email ID
Dr.Hitendra Kumar	Department of Entomology,School of Agricultural Sciences, SGRR University Pathribagh Dehradun-248001	7017286650	hitendrakumar@sgrru.ac.in

Course Objectives:

- 1. To impart the basic knowledge about honey bee species and bee flora
- 2. To develop understanding about handling of honey bee keeping equipments & management of diseases & pests of honey bee
- 3. To develop the skills in scientific methods of bee keeping and extraction of honey
- 4. To impart the knowledge regarding apiary management by month wise calendar

Eligibility for registration in the course:

Any student of SGRR University can be registered in value added course in "Agri-prneurship Development in Beekeeping".

Examination and Evaluation

As per university norms.

SYLLABUS

Module I : Introduction to Bee Keeping, History, Present scenario & scope, Selection of bee species & races, Identification of bee flora and location of site

Module II : Honey bee keeping equipments, Building & division of comb and colony, Management of insects and diseases and nuisance in bee hives

Module III :Scientific methods of bee keeping, Bee Boxes Maintenance, Collection and preservation of honey,

Module IV : Month wise calendar of operations in bee keeping, Seasonal Management of honey bees.

Course outcomes (CO) :

On successful completion of course the student will be able to:

- **CO 1**: Understand importance of beekeeping, Selection of bee species & Identification of bee flora and location of site
- CO 2: Handling of bee keeping equipments, Management of insects and diseases & natural enemies
- **CO 3:** Scientific methods of bee keeping & honey processing
- CO 4: Seasonal apiary management by month wise calendar

Suggested Readings:

- Atwal AS.2006. The World of the Honey Bee. Kalyani Publisher., New Delhi.
- Singh S. 1975. Beekeeping in India. ICAR, New Delhi.
- Abrol DP.2010. Bee and Beekeeping in India. Kalyani Publisher., New Delhi.
- Mandal,SK. Kumari,A.2016.Madhumakhi Palan:Mahatva, Utpadan Evam Upyog .Astral International Pvt. Ltd