

DEPARTMENT OF BOTANY				<i>Certificate Course</i>				
Sem	Course Type	Course Code	Course Title	Credits	Total Contact Hours	CIA	Ext	Total
	Certificate course	21B6C1	Apiculture	2	30	50	50	100

Course objectives

- To provide knowledge on the commercial significance of apiculture
- To impart the skills of bee keeping and honey bee identification.
- To acquaint with the honey production and their management practices

UNIT I 6hr

History of bee keeping - Definition, Introduction. Bee keeping – Worldwide and India. Traditional bee keeping, Modern beekeeping.

UNIT II 6hr

Honey bee species and identification - Introduction, Origin. Systematics and Distribution - Types and Species.

UNIT III 6hr

General management practices in bee keeping - Best management practice – Definition, Requirements to register, Swarms and Bee enquiries, Hive densities, Hive placement, Water provisions, Queens and Robbing behavior, Transportation of hives.

UNIT IV 6hr

Bee diseases – Introduction. Bee enemies – Wax Moth, Ants, Wasps, Microorganisms, Pests. Diagnosis and identification. Honey bee health, Colony collapse disorder.

UNIT V 6hr

Bee products – Introduction, Honey, Pollen, Royal jelly, Bee wax, Propolis & Venom. Significance of bee products - Value added honey products.

References:

1. Dewey M. Caron, 2013. Honey Bee Biology and Beekeeping, Revised Edition. Wicwas Press, Kalamazoo.
2. Ted Hooper, 2010. Guide to Bees & Honey: The World's Best Selling Guide to Beekeeping. Northern Bee Books, Oxford.
3. David Cramp, 2012. The Complete Step-by-step Book of Beekeeping: A Practical Guide to Beekeeping, from Setting Up a Colony to Hive Management and Harvesting the Honey. Lorenz Books. London.

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