

**St. Joseph's College (Autonomous) Irinjalakuda**

**Department of Zoology**

**Value Added course - "Beekeeping"**

Total hour: 30

1. Introduction (8 hours)
  - 1.1. Species – morphology, anatomy, colony organization and life cycle.
  - 1.2. Social behaviour
2. Maintenance of bee colonies-traditional and modern bee keeping. (4hours)
3. Bee keeping equipment - collection and preservation of bee pasture, honey and Bee wax. (5hours)
4. Bee enemies, diseases and their control (5 hours)
5. Honey bee products: chemical composition of honey and it uses, honey bee wax mention medical uses. (5 hours)
6. Seasonal management, economical importance of apiculture. (3 hours)