

Title of the course: **“CERTIFICATE COURSE IN ECONOMIC ZOOLOGY”**

Name of the coordinator: **Dr. John Paul. A. M.Sc., M. Phil., Ph D.,**

Department: **ZOOLOGY**

Duration of the course: **90hrs (3 credits)**

Timing: **1st and 3rd Saturday**

Course Fee: **Rs. 3700/- (Course fees – Rs. 3000/- ; Field visits – Rs. 700/-)**

Scope of the course: **To impart the practical knowledge and working skill to the students on various aspects of Zoology and to train them for their livelihood.**

SYLLABUS

1. Theory (Modules)

Applied Entomology - Emphasis on Apiculture and Sericulture (Theory 45hrs)

I.I) Principles of entomology and biodiversity

I.II) Pest monitoring and management

I.III) Insect-plant interaction and chemical ecology

I.IV) Insecticides and insect resistance

I.V) Biological control of insect pests

I.VI) Insect pests of some crops of economic importance

I.VII) Productive Arthropods and Crustaceans- Honey bees, Silkworm, Prawns, Pearl etc.,

I.VII.I) Apiculture: species, bee keeping and management, role in pollination, bee products.

I.VIII) Economic importance of Mammals (Piggery, Dairy industry, Leather, wool and Fur industry)

I.IX) Pharmaceuticals from Animals

I.X) Wild life in India and its Conservation

2. Practical (45hrs)

II.I) Identification of insects (harmful & beneficial)

II.II) Identification of stored and household pests

II.III) Identification of major pests of crops

II.IV) Insect traps and biological control agents

II.V) Bee keeping methods, extraction of honey and its preservation

II.VI) Sericulture – Different species of silkworm, Rearing of silkworm and
Diseases of silkworm

NOTE: Practical includes field visits (IIHR, Agricultural Research Stations, Sericulture Institutes, A Rocha, Dairy Institute etc.,)