

DEPARTMENT OF ZOOLOGY
VALUE ADDED COURSE
AQUARIUM KEEPING

Hour: 30

Course outcome:

After completion of this course, students will be able

1. Students learn the biology & rearing of ornamental fishes and is able to maintain Home aquaria.
2. He develops Entrepreneurial skill and thereby becomes fit to earn their livelihood.
3. To inculcate the importance and methodology of ornamental fish farming and the various techniques of handling up to marketing.
4. To impart the knowledge on construction of glass aquarium and its maintenance.

Unit-I

6 hrs

The potential scope of aquarium keeping- Characteristics of ornamental fishes- Types of aquaria- Aquarium maintenance. Setting of aquarium of different sizes.

Unit- II

6 hrs

Aquarium fishes: Gold fish- Angel fish- Molly- Tiger Barb- Zebra fish- Guppy- Common aquarium plants and their multiplication. Aerators and filters.

Unit- III

6 hrs

Different types of ornamental freshwater species, their breeding habits and life history: Rearing of larvae and adults.

Unit- IV

6 hrs

Fish feeds – Supplementary feed– Formulation- Live feeds. Diagnosis of common Aquarium fish diseases- Protozoan, bacterial & viral and treatment.

Unit- V

6 hrs

Packaging and transport of aquarium species – Export units – Marketing strategy- Regulations for export of fish.

Field visit to the local aquaria

Books for References:

1. Jhingran, V. G. and Sehgel, K. H. 1994. Coldwater fisheries of India, Inland Fish. Soc., India, pp.239.
2. Sehgel, K. H., Sports fisheries of India, ICAR Publication, New Delhi.

VALUE ADDED COURSE

BIRDS KEEPING

Hours: 30

Course outcome:

After completion of this course, students will be able

1. Student understand the basic behavioral characteristics of birds commonly kept as pets.
2. Students learn the Basic husbandry principles, nutrition, and biosecurity for pet birds.
3. Students get familiar with basic economics and develops entrepreneurial skill
4. To impart basic knowledge in bird keeping, bird biology, breeding disease management.
5. To know the feasibility for bird keeping in commercial scale.

Unit I:

Introduction to Bird Keeping - The potential scope of ornamental bird Industry as a Cottage Industry, Exotic and Endemic species of Ornamental birds.

Unit II:

Biology of ornamental birds - Common characters and sexual dimorphism Parrot, Pigeon, Love birds, Sparrow.

Unit III:

Food and feeding of ornamental birds, Preparation and composition of formulated bird feeds. – Bird handling, packing in cages - and Breeding methods.

Unit IV:

Introduction to basic veterinary procedures used when handling and caring for birds in a clinical setting. Common diseases – precautions and control measures.

Unit V:

Economics of bird keeping – Mass Culture - Marketing – Sales.

Field visit to Pet shops

Books for References:

1. Gary A. Gallerstein, Julie Rach, Julie Rach Mancini, The Complete Pet Bird Owner's Handbook, Avian Publications, 2003 - Birds - 441 pages, ISBN.1895270251.