

GU FYUGP-2023
SKILL ENHANCEMENT COURSE
Sub: ZOOLOGY (B.Sc. Sem 1)
ORNAMENTAL FISH AND FISHERIES
Credit-4

1. Ornamental Fish Diversity of North East India.
2. Aquarium plant diversity in the wetland of Assam.
3. Construction and management of Home Aquarium.
4. Natural feed of Ornamental Fish
5. Strategies for maintenance of natural colour of Ornamental Fish
6. Natural Breeding of *Tricogaster* species
7. Health management of Ornamental Fish
8. Feed formulation of Ornamental Fish
9. Development of Biological filtration in Aquarium
10. Pure culture of planktons

Practical's

1. Identification of Ornamental Fish
2. Culture of Indigenous ornamental fish in Aquarium
3. Estimation of Physico-chemical characteristics of Aquarium water
4. Biological filter for removal of Ammonia from Aquarium
5. Culture of Planktons

SKILL ENHANCEMENT COURSE
Sub: ZOOLOGY (B.Sc. Sem 3)
ORNAMENTAL FISH AND FISHERIES
Credit-4

1. Ornamental Fish Diversity of North East India.
2. Aquarium plant diversity in the wetland of Assam.
3. Construction and management of Home Aquarium.
4. Natural feed of Ornamental Fish
5. Strategies for maintenance of natural colour of Ornamental Fish
6. Natural Breeding of *Tricogaster* species
7. Health management of Ornamental Fish
8. Feed formulation of Ornamental Fish
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Practical's

1. Identification of Ornamental Fish
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SKILL ENHANCEMENT COURSE

Sub: ZOOLOGY (B.Sc. Sem 5)

NON-MULBERRY SERICULTURE

CODE: ZOO-SE-5014

CREDITS 4

Unit 1: Introduction Sericulture: Definition, history and present status of Mulberry and Non-Mulberry Sericulture; Silk route Varieties of Silk; Types and distribution of non-mulberry or wild or Vanya sericigenous insects in N-E India

Unit 2: Biology of Non-mulberry Silkworm: Life cycle of silkworm- Eri and Muga Structure of silk gland and Nature of Silk

Unit 3: Rearing of Silkworms (Eri and Muga Silkworm): Food plants of Eri and Muga Silkworm Rearing Operation: Rearing house/Site and rearing appliances Disinfectants: Formalin, bleaching powder Rearing technology: Early age and Late age rearing Environmental conditions in rearing-Temperature, Humidity, Light and Air Types of mountages Harvesting and storage of cocoons Spinning and Reeling of silk

Unit 4: Pests and Diseases: Pests of Eri and Muga silkworm Pathogenesis of Eri and Muga silkworm diseases: Protozoan, viral, fungal and bacterial Prevention and control measures of pests and diseases

Unit 5: Entrepreneurship in Non-Mulberry Sericulture: Varieties of Non-Mulberry Silk products and economics in India Prospectus of Non-Mulberry Sericulture in India: Non-Mulberry Sericulture industry in different states, employment generation and potential Visit to various sericulture Govt. /Private Farm/ Centres.