

**VSC-THORY**  
**POULTRY FARMING Part I**

**Credit: 01**

**Hours: 15**

**Unit 1: Introduction to Poultry Farming**

**08**

- Poultry and Poultry breeds
- Indigenous breeds: Assel, Chittagong, Ghagus
  - Exotic breeds:
  - Mediterranean breeds: Leghorn, Minorca, Ancona
  - American breeds: Rhode Island Red, New Hampshire, Plymouth Rock
  - English breeds: Australorp, Sussex, Cornish
  - Asian breeds: Brahma, Cochin, Langshan
- Feeding: Balanced diet, Diet on age group (Control fed)
- Housing: Free range system, Semi intensive system, Folding unit, Intensive unit
- Poultry Diseases: Small pox, Ranikhet

**Unit 2: Principles of Poultry Breeding**

**07**

- Principles of Poultry breeding
  - Commercial breeding
  - Village/Backyard breeding
  - Fancy/Exhibition breeding
- Breeder farm sequence: Introduction to Brooding, Growing, Housing, Mating, Collection, Incubation and Hatching
- Commercial poultry breeding
  - Formation of an egg
  - The egg
  - Hatchery
  - Stages of Incubation
  - First stage of Incubation
  - Second stage of Incubation
  - Candling of eggs
  - Chick sexing and its method

**VSC**  
**POULTRY FARMING Part I Practical**

**Credit: 01**

**Hours: 30**

1. **Identifying feature and economic importance of Assel, Chittagong, Ghagus, Leghorn, Minorca, Ancona, Rhode island red**
2. **Identifying feature and economic importance of New Hampshire, Plymouth Rock, Australorp, Sussex, Cornish, Brahma, Cochin, Langshan.**
3. **Study of Housing pattern by using model: Free range, Semi intensive, Folding unit, Intensive unit**
4. **Study of poultry diseases with reference to Small pox and Ranikhet**
5. **Visit to Poultry farm (Commercial poultry breeding) and submission of visit report.**

**VSC-THORY**  
**POULTRY FARMING Part II**

**Credit: 01**

**Hours: 15**

**Unit 1: Management of breeding stock and broilers**

**09**

- Chick start
- 16 to 24 week management
- Male management
- Post peak feeding management
- Egg handling
- Cross breeds for parent stock (broiler breeder)
- Broiler growth and management
- Feeding Broiler Breeder (Parent stock)
- Broiler Breeder management

**Management of Broiler**

- Biosecurity
- Air Quality
- Brooding Temperature
- Water
- Chicks microclimate
- Equipment density
- Litter Quality
- Feed and water

**Unit 2: Processing and Preservation of Eggs**

**06**

- Processing of Eggs: Phase 1, 2, 3
- Production planning
- Methods of egg preservation
- Home conservation
- Business preservation
- Cold stockpiling strategy
- Thermo adjustment strategy
- Pasteurization strategy

**SUGGESTED READINGS:**

1. Poultry Husbandary: Morle A. Jull, Tata Mc Graw Hill Publishing Company Ltd. New Delhi 1972
2. Livestock and Poultry Production: Harbans Singh and Earl N Moore Prentice Hall of India Pvt. Ltd. New Delhi 1982.

**Note:** It is mandatory for students to complete Hands on Training/Internship (7 Days) at Poultry farm and submission of report. (As per the G.R.No: NEP 2022/प्र.क्र.09/विशिस/शिकाना Govt. of Maharashtra, Dated:20/04/2023)

**VSC**  
**POULTRY FARMING Part II Practical**

**Credit: 01**

**Hours: 30**

- 1. Internship at Poultry farm of the duration of 7 days.**
- 2. Submission and presentation of report.**

**SEC-THEORY**

**AQUARIUM FISH KEEPING Part I**

**Credit: 01**

**Hours: 15**

**Unit 1: Introduction to Aquarium Fish Keeping**

**07**

- The potential Scope of aquarium fish cottage industry
- Exotic and endemic species of aquarium fishes
- Types of aquaria

**Unit 2: Biology of Aquarium fishes**

**08**

- Common characters of freshwater aquarium fishes: Guppy, Molly, Gold fish, Angel fish, Sword tail, Bluemorph
- Common characters of marinewater aquarium fishes: Butterfly, Anemone fish
- Sexual dimorphism of Guppy, Molly, Gold fish, Angel fish
- Construction and setting of an aquaria
- Acclimatization of fishes

**SEC**

**Aquarium fish keeping Part I Practical**

**Credit: 01**

**Hours: 30**

1. **Identifying feature and economic importance of Guppy, molly, gold fish, angel fish, sword tail, Blue morph.**
2. **Identifying feature and economic importance of Anemone fish, Butterfly fish**
3. **Construction of an aquarium**
4. **Setting of an aquarium by using given prerequisite**
5. **Acclimatization of fishes**

**SEC-THEORY**

**AQUARIUM FISH KEEPING Part II**

**Credit: 01**

**Hours: 15**

**Unit 1: Food and feeding of Aquarium fishes**

**07**

- Use of live fish feed organisms.
- Preparation and composition of formulated fish feeds
- Aquarium fish diseases and their management

**Unit 2: Fish transportation and maintenance of aquarium**

**08**

- Live fish transport- Fish handling, packing and forwarding techniques
- General aquarium maintenance
- Budget for setting up an Aquarium fish farm as a Cottage industry

**SEC**

**Aquarium fish keeping Part II Practical**

**Credit: 01**

**Hours: 30**

1. Preparation of formulated fish feed
2. Study of length-weight relationship of aquarium fishes
3. Study of aquarium fish diseases
4. Instruments used in Aquarium tank and their significance
5. Project report on maintenance of aquarium tank installed in institution.