

**GUJARAT UNIVERSITY**  
**SKILL ENHANCEMENT COURSES**  
**B.Sc., ZOOLOGY Semester- IV**  
**SEC – 246 (2 CREDITS)**  
**(POULTRY SCIENCE)**

**Unit-1 Poultry Science**

- **Scope and breeds of Poultry (with reference to only cocks and hen)**
  - Introduction
  - Importance of poultry industry
  - Different characters to be considered for selection of preferred poultry birds
  - Poultry breeds: White Plymouth Rock, New Hampshire, Rhode Island Red, White Leghron, Brahmas, Kadaknath, Asil.
- **Poultry house and its requirements**
  - Principles for the construction of poultry house
  - Free range system and Semi intensive system
  - Deep litter system and Cage system (Battery system)
  - Types of roofs
  - Poultry equipments: Types of brooders, waterers, feeders and incubators
- **Rearing and caring of poultry birds and their health aspects**
  - Week wise rearing of chick
  - Rearing of layers
  - Rearing of grower
  - Rearing of broiler
  - Poultry disease: Causes, symptoms & prevention of Pullorum , Ranikhet, Bird flu, Ascariasis, Coccidiosis
- **Poultry feed, poultry products and by products**
  - Poultry feed composition and preparation
  - Egg lying hen's caring
  - Nutritive properties of egg and chick flesh
  - Gradation of eggs and preservation of eggs

**Unit-2 Practical**

- Study of different characters to be considered for selection of preferred poultry birds.
- To study poultry breeds: White Plymouth Rock, New Hampshire, Rhode Island Red, White Leghron, Brahmas, Kadaknath, Asil.
- Study of principles for the construction of poultry house

- To study free range system, semi intensive system, deep litter system and cage system (Battery system)
- Different types of roofs of poultry house.
- To study poultry equipments: Types of brooders, waterers, feeders and incubators
- Brief study of rearing and caring of poultry birds.
- Study of poultry disease: Pullorum , Ranikhet, Bird flu, Ascariasis, Coccidiosis
- To study poultry feed composition and preparation
- Brief study of Egg lying hen's caring
- Nutritive properties of egg and chick flesh
- To study gradation of eggs and preservation of eggs

### **Reference books:**

1. Poultry, G.C. Banerjee, Oxford & IBH pub. Co., Delhi.
  2. Poultry husbandry, M. A. Jull, Tata McGraw Hill Pub., Delhi.
  3. Poultry Vignan, Fourth Edition. Mehta, N.T. and Ghasura, M. E. 1994. University Granth Nirman Board, Ahmedabad. (Gujarati)
  4. Economics Zoology, Fourth Edition. Shukla, G. S. and Upadhyay, V. B. 1998. Rastogi Publication, Meerut.
  5. Essentials of Poultry Science, Mihir Suthar
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