

ELECTIVE IV - POULTRY SCIENCE

Unit I

Introduction to poultry science – Historical review and problems of poultry growing in India. Annual egg production in India.

Nomenclature of breeds of fowl, classification of fowls, selection of breed – Natural and artificial brooding.

Housing and equipment – General principles of building poultry sheds, deep litter system, laying cages.

Unit II

Brooding and rearing – Methods of brooding brood temperature, space and duration; feed, water and space allowance, debeaking – vaccination.

Management of growers, layers, broilers – lighting of chicks, growers and layers. Summer and winter management.

Poultry manure – volume, composition, value and disposal.

Unit III

Feed additives – Names, allowance and usage of Food additive – the impact on human health.

Food stuffs for poultry in relation to protein, amino acids, minerals (Ca and P), vitamins and fibre content.

Feed formulations for chicks, growers, phase I to phase III layers and broilers.

Unit IV

Short account on cause symptoms, prevention, control and treatment of viral, bacterial, fungal, protozoan and worm infection, ticks, mites and lice affecting fowl.

Unit V

Nutritive value of egg, factors affecting egg size, storage and preservation of egg, marketing, incubation and hatching of eggs.

Economics of poultry production units to examine first hand rearing and business operation.

Text Book:

Sunil Kumar Das (1994) – Poultry production, CBC Publishers and Distributors, Delhi – 110032.

Reference Books:

1. Banerjee G.C. (1992) A textbook of animal husbandary, Oxford and IBM Publishing Co., New Delhi.
2. Shukula, G.S. and Upadhyay V.B. (1997) Economic Zoology, Rakesh Rastogi Meenit.
3. Indian Poultry Industry year book 1975 – 76. By Sakuntbak B.Gupta, C-34, New Bactak Road, New Delhi – 110 005.
4. Intensive Poultry Management for egg production. Bulletin NO. 152, Her majesty stationery office, London.