

Skill Enhancement Course (SEC)

Practical: 35 Marks for the End Semester Examination (ESE)

Continuous Evaluation (CE): 10 Marks

(CE: Class Test/Seminar/Review/Dissertation/Training/Group Discussion/Workshop etc.)

Attendance: 5 Marks

Total: 50 Marks

Poultry Breeding

Course objectives:

- To see and practice the paths that lead to the success of any entrepreneurship on live animals and birds
- To develop the knowledge of poultry in an operational farm for more profit management, feed requirements, etc.
- To make the students well versed in their practical skills starting from hatching of chicks to the egg production stage

Learning outcomes:

By successful completion of the course, students will be able to:

- Enlighten themselves about the operation of livestock and poultry farming.
- Learn poultry farming will generate a source of employment opportunities in rural areas and employment.
- Understand the field level structure and functioning of insurance sector and its role in protecting the risks.
- Comprehend pertaining skills and their application for promoting insurance coverage.

Practical Syllabus (3 Credits*/Week)

Semester-I

Unit 1: Identification and Poultry Rearing Systems

I) Identification (From photographs/PPT slides) of different poultry and fowl breeds (Aseel, Chittagong, Kadaknath, Busra, Harringhata Black); II) Drawing and labeling of external and internal body parts of poultry bird, III) Demonstration of different systems of poultry rearing as-free-range, semi intensive, intensive rearing; IV) Various advantages and disadvantages of systems of poultry rearing, V) Preparation of various model structures of poultry breeder farm, hatcheries and commercial poultry farms

Unit 2: Poultry Feeds

I) Identification of major feed ingredients of poultry; II) Demonstration of various feeding requirements in various species of poultry, III) Different forms of poultry feed, IV) Preparation of low cost balanced rations with locally available ingredients and identification of commercial feed formulation in poultry, V) Preparation of list of commonly occurring anti-nutrients and toxicants in poultry feed ingredients, VI) Various systems of feeding, VII) Preparation of list of additives and non-additives along with non-conventional feed stuff used for commercial poultry farming

Semester-II

Unit 1: Poultry Farming Equipments

I) Preparation of schematic diagram of site and location of poultry farm, II) Identification of various types of poultry houses and ventilation systems in poultry housing, III) Demonstration of systems of poultry rearing-cage, deep litter and slat systems, IV) Poultry farm, feeding and watering equipments, vaccinators, debeaking, V) Applications of automatic feeders and drinkers, VI) Egg and manure collection system

Unit 2: Incubation and Hatchery Management, Medication and Vaccination

I) Principles and important factors in breeding, II) Incubation and hatchery management, III) Identification of various systems of rearing in broiler and layer poultry, IV) Feeding, watering and essential management practices required in poultry, V) Hands on practical on various medication like- drenching, injection and other process and vaccination schedule and injection procedures (intra-muscular, intravenous and subcutaneous methods), VI) Pre- and post-vaccination care

Semester-III

Unit 1: Poultry Diseases

I) Identification of various infectious diseases of poultry (viral, bacterial, fungal, protozoan diseases), II) Description of various nutritional deficiency diseases of poultry, III) Demonstration of post mortem procedure, IV) Enlistment of different preventive measures for outbreak of diseases in poultry farm

Unit 2: Financial Management

I) Documentation and record keeping in poultry farm management, II) Poultry value chain, interventions, supply chain management, III) Description of financial management of successful poultry enterprise, IV) Visiting any successful poultry entrepreneurship farm in adjacent areas

Unit 3: Farm Hygiene, Sanitation and Bio-safety

I) Demonstration of general farm hygiene and sanitation procedures including quarantine, isolation, shed cleaning and disinfection, II) Enlistment of bio-safety and bio-security measures, III) Proactive measures to minimize entry of infection agents

Suggested Readings:

1. Poultry Science and Practice - N. Ghosh

2. Poultry Production and Management - J. Prasad
3. Sreenivasaiah, P. V., 2015. Textbook of Poultry Science. 1st Edition. Write & Print Publications, New Delhi
4. Jull A. Morley, 2007. Successful Poultry Management. 2nd Edition. Biotech Books, New Delhi
5. Hurd M. Louis, 2003. Modern Poultry Farming. 1st Edition. International Book Distributing Company, Lucknow
6. https://swayam.gov.in/nd2_nou19_ag09/preview

**Credit means the unit by which the course work is measured. It is equivalent to one hour of teaching (Lecture or Tutorial) or two hours of practical work/field work per week.*