DEPARTMENT OF LIVESTOCK PRODUCTION MANAGEMENT
COVAS, CSK HPKV, PALAMPUR
Commercial Poultry production and Hatchery Management
LPM-221 Cr. Hrs. 1+1=2

COURSE CONTENTS

THEORY

**Housing**- Location of poultry farm. Types of poultry houses. Different types of rearing- advantages and disadvantages. Space requirement for different age group under different rearing systems. Environmentally controlled housing. Brooding Management.

**BROODING MANAGEMENT**: Brooding types of brooder preparation of shed to receive chicks, importance of environment (temperature, humidity, and ventilation). Feeding and vaccination in early stage of chick.

**REARING & MANAGEMENT**- Care and management of growing laying / broiler birds of both breeders and commercial categories of poultry. Battery cage management different types and sizes. Poultry judging.

**LITTER MANAGEMENT**: Litter materials, litter born diseases and control, potential for poultry litter used as fertilizers recycling for livestock feeding and power generation; Special management care in adverse weather conditions/ stress, summer management modification of housing light reflection of housing light reflectors, insulators, sprinklers foggers and other methods dietary modification to minimize heat stress, special management during rainy season, other stress management –vices in poultry and its remedial measures.

**WATER MANAGEMENT**: Standard for drinking water in terms of total solids. pH mineral levels stabilizers and water sanitations diseases spread through water contamination – prevention.

**BIOSECURITY**: Proactive measures to minimize entry of infections in farm premises farm fencing disinfectant pits personnel management, restriction of movement etc. Poultry welfare and behavior.

**FEEDING**: Digestive system and digestion in chicken classification, selection of common feed ingredients and their nutrient composition. Nutrient requirement for different age groups. Feed formulation, economics of feed formulation cost/ unit nutrient. Feeding systems and feeding management, economization of poultry feeding. Feed restricts separate male feeding; non nutrient feed additive including herbal bio- enhancers, anti nutritional factors and toxins.

**HEALTH CARE**: Common poultry disease: bacterial, viral fungal, parasitic, and nutritional deficiencies vaccination schedule for commercial layers and broiler; factors that govern vaccination schedule vaccination principles types methods, precaution with emphasis on administering. Medication through water and feed; commonly used drugs in poultry disease. Disinfection: Types of disinfectant mode of action recommended procedure precaution and handling.

**ECONOMICS**: Economics of layer and broiler production, Projects report layer in different system of rearing. Projects report for broiler- Feasibility studies on poultry rearing in context of
small units and their profitability. Designer meat and egg production. Export/import of poultry and poultry products.

**BREEDER FLOCK MANAGEMENT:** Layer and broiler breed flock management housing and space requirements. Different stage of management during life cycle. Light management during growing and laying period. Artificial insemination.

**FEEDING:** Feed restriction, separate male feeding. Nutrient requirement of layer and broiler breeder of different age groups. Health care vaccination of breeder flock difference between vaccination schedule of broiler and commercial birds. Common diseases of breeder (infectious and metabolic disorders) - prevention. Fertility disorder-etiology, diagnosis and corrective measure. Selection and culling of breeder flocks. Economics parameters on returns from breeders- for example saleable chicks/hen/production cycle etc.


**PRACTICAL**
Male and female production system. Artificial insemination. Selection of breeder flocks.


Exposure to commercial broiler and layer farms different system of housing.

Demonstration of litter and cage rearing systems. Feed equipments and maintenance, hammer mill moidure pellet mill types, principles of working comparison of different types premix preparation quality control of raw materials. Feed mill operation. Demonstration of different types of feeder waterer fogger sprinters etc. Maintenance of farm records. Medication-demonstration of routinely employed methods of administration.

Vaccination practice in general and demonstration of different roots of administration in particular