CURRICULLUM FOR POULTRY SCIENCE IN UNDER GRADUATES DEGREE PROGRAMME CBCS SYLLABUS SCHEDULE 2016 – 2017

Semes	Course category	Title of the Paner	No of	HPW	Max. Marks			Total
		Title of the Paper	No. of Credits	HPW	I.A	End Exam	Total	Marks
FIRST Y			Citatio		1.71	Daum	1000	
I	Paper – I (Theory)	Introduction to Poultry Science	3	3	20	40	60	100
	Paper – I (Practical)		2	2	-	40	40	
п	Paper – II (Theory)	Anatomy and Physiology of Chicken	3	3	20	40	60	100
	Paper – II (Practical)		2	2	-	40	40	
SECON	D YEAR							-
Ш	Paper – I (Theory)	Poultry Nutrition and Biochemistry	3	3	20	40	60	100
	Paper – I (Practical)		2	2	-	40	40	
IV	Paper – II (Theory)	Poultry Diseases and Pharmacology	3	3	20	40	60	100
	Paper – II (Practical)		2	2	-	40	40	
THIRD	YEAR							
V	GE – 1 (Theory) GE – 1	Breeder and Hatchery Management Broiler Management	4	4	20	60	80	120
	(Practical) Paper – V		2	2	-	40	40	
	(Theory) Paper - V		3	3	10	40	50	
	(Practical)		1	1	-	30	30	
	Paper – VI (Theory)	Layer Management	3	3	10	40	50	80
	Paper - VI (Practical)		1	1	-	30	30	
	SEC	PROJECT WORK THROUGH INTERNSHIP	2	2	-	40	40	40
VI	GE - 2 (Theory)	Poultry Products and Technology	4	4	20	60	80	120
	GE – 2 (Practical)		2	2	-	40	40	
	Paper - VII (Theory)	Poultry Entrepreneurship Poultry Waste Management	3	3	10	40	50	80
	Paper –VII (Practical)		1	1	-	30	30	
	Paper – VIII (Theory) Paper - VIII		3	3	10	40	50	80
	(Practical)		1	1	-	30	30	
SUMMARY OF CREDITS			50	50	-	-	-	100

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I - SEMESTER

Paper – I (Theory) INTRODUCTION TO POULTRY SCIENCE

Max. Marks: 60

UNIT-I: Indian Poultry Industry

- 1.1 Definition of Poultry, Importance of Poultry Farming, and Poultry development in India.
- 1.2 Present status and future prospectus of poultry Industry
- 1.3 Origin of the chicken and Classification of Poultry based on Genetics utility
- 1.4 Classification of chicken as per international standards.

UNIT - II: Scientific Poultry keeping

- 2.1 Modern breeds of chicken varieties used for modern breeding.
- 2.2 Present day egg production lines
- 2.3 Present day meat production lines
- 2.4 The Mini breeds dwarfism in mini- Leghorns.

UNIT-III: Diversified Poultry

- 3.1 Ducks and Geese Introduction Advantages Classification Duck rearing systems
- 3.2 Quails Origin and Domestication Advantages of Quail farming.
- 3.3 Guinea fowls Guinea fowl farming in India Importance of Guinea fowl production Verities
- 3.4 Turkeys Turkeys farming in India Varieties

UNIT - IV: Ratite Birds (Emu and Ostrich) and Desi Chickens

- 4.1 Ratites Classification Economical Aspects
- 4.2 Emu based commercial Products and Ostrich products, yields and their uses.
- 4.3 Desi Chicken Introduction Indigenous Breeds and Economical aspects of desi chicken
- 4.4 Improved Varieties in India Giriraja Vanaraja Gramapriya Gramasree Gramalakshmi Nandanam Chicken 1, Nandanam Chicken 2, Namakkal Desi Chicken CARI Nirbeek (Aseel cross), Hitcari (Naked Neck Cross), Swarnadhara Girirani Krishbro Kalinga brown

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- 1. External Anatomy of Chicken and Nomenclature
- 2. Comb Pattern in chicken
- 3. Integumentary system in chicken
- 4. Demonstration of Breeds of chicken
- 5. Demonstration of Breeds of Ducks and Geese
- 6. Demonstration of Breeds of Turkeys
- 7. Demonstration of Breeds of Quails
- 8. Demonstration of Breeds of Turkeys
- 9. Demonstration of Breeds of Guinea Fowls
- 10. Demonstration of Breeds of Ratite Birds
- 11. Demonstration of Breeds of Desi chicken

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II - SEMESTER

Paper – II (Theory) ANATOMY AND PHYSIOLOGY OF CHICKEN

Max. Marks: 60

UNIT-I: Digestive and Skeleton system of chicken

- 1.1 Macroscopic structure of Digestive System of Chicken and their Accessory Glands
- 1.2 Microscopic structure of Alimentary canal of Chicken
- 1.3 Mechanism of Digestion Physical and Chemical digestion of chicken. Factors affecting the rate of Digestion in Chicken
- 1.4 Skeleton system of fowl

UNIT - II: Reproductive system of chicken

- 2.1 Macroscopic structure of Female Reproductive system
- 2.2 Formation of Egg in Fowl
- 2.3 Factors influencing the ovulation. Pre-ovipopsition and Post-oviposition
- 2.4 Macroscopic structure of Male Reproductive system and composition of semen

UNIT - III: Respiratory system, Vascular system and Excretory System

- 3.1 Macroscopic structure of Respiratory system of Chicken
- 3.2 Mechanism of Respiration Inspiratory and Expiratory muscles Disposal of Carbon Dioxide Outside and inside the body. Factors influencing the rate of Respiration in fowl.
- 3.3 Vascular system Structure of the Heart Composition of Blood Name of Arteries supplying the Blood to all parts of the body. Difference between Arteries and Veins.
- 3.4 Excretory system of chicken

UNIT - IV: Exocrine and Endocrine system and Embryology

- 4.1 Exocrine system of Fowl Classification Glands Difference between Enzymes and Hormones
- 4.2 Name the Endocrine Glands in Chicken and name of hormones of each gland and its functions
- 4.3 Embryology of chicken: Fertilization Zygote formation Cleavage Blastulation Gastrulation Extra embryonic membranes in chicken
- 4.4 Development of Embryo during 24, 48, 72 and 96 hours. Developmental changes during 21 days of Incubation.

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- 1. Dissection of Live Bird:
 - a) Demonstration of Digestive system
 - b) Demonstration of Reproductive system of Male
 - c) Demonstration of Reproductive system of Female
 - d) Demonstration of Respiratory system
 - e) Demonstration of Urinary system
 - f) Demonstration of Heart
 - g) Demonstration of Endoskeleton system

2. Slides:

- a) T.S. of Intestine
- b) T.S. of Liver
- c) T.S. of Pancreas
- d) T.S. of Ovary
- e) T.S. of Testisf) 24 hours chick embryo
- g) 48 hours chick embryo
- h) 72 hours chick embryo
- i) 96 hours chick embryo

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III - SEMESTER

Paper – III (Theory) POULTRY NUTRITION AND BIOCHEMISTRY

Max. Marks: 60

UNIT - I : BIOCHEMISTRY OF PROTEINS

- 1.1 Poultry nutrition definition Importance Objectives principles of Poultry Feeding Systems of feeding
- 1.2 Protein Definition. Classification Composition of typical protein Biological significance classification based upon source (Plant and Animal)
- 1.3 Protein quality Evaluation measures of protein quality crude protein estimation of feed samples Biological vale and its limitations net protein value protein efficiency ratio chemical score method.
- 1.4 Amino Acids: Definition properties classification essential and non essential amino acids critical amino acids synthetic amino acids commonly used in poultry
- 1.5 The factors influencing the protein requirement of poultry calorie protein ratio effect of low and high protein in poultry rations calculation of daily protein requirements for chicks, growers, laying phase –I and Laying phase II

UNIT - II: BIOCHEMISTRY OF CARBOHYDRATES AND LIPIDS

- 2.1 Carbohydrates definition- classification Various terms used for energy gross energy Digestible energy Metabolized Energy production energy feed stuffs Production energy ares like millets, brans etc.
- 2.2 Calculation of daily energy requirement of poultry in terms of M.E Advantages and disadvantages of M.E. and Production Energy.
- 2.3 Energy from Carbohydrate Metabolism crude fiber definition and its role in poultry nutrition.
- 2.4 FATS: definition classification importance of fats in poultry ration Energy from fat metabolism Essential fatty acids source Functions Requirements Fats used as energy source in poultry Nutrition Tallow Lard etc.

UNIT-III: VITAMINS AND MINERALS

- 3.1 Vitamins definition Importance Classification based on solubility
- 3.2 Vitamin sources Vitamin supplements
- 3.3 Minerals Definition Importance Classification based upon requirement
- 3.4 Critical Minerals Major minerals Chemical chalets Sources Functions Deficiency symptoms Common Mineral supplements.

UNIT - IV: FEED ADDITIVES AND FEED FORMULATION

- 4.1 Feed Additives Definition Classification Antibiotics Anti-oxidants Coccidiostats etc. And their role in poultry nutrition Feed supplements generally used as feed additives.
- 4.2 selection of good quality feed ingredients keeping in view of the Nutritive value Cost Availability storage etc.
- 4.3 Feed formulation for Chicks, Growers, Layers, Broilers and Breeders
- 4.4 Grinding Mixing of feed Objectives and Principles. Hammer mill, mixture, pellet mill-types, principle of working, comparison of different types, premix preparations quality control of raw materials. Feed mill operation.

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- 1. Brief an account on Nutrients required in poultry feed Proteins, Carbohydrates, Lipids, Vitamins and Minerals
- 2. Name of feed ingredients and their nutritive value in terms of C.P. % and M.E. in K.Cal/kg of feed and levels used in poultry feed b) Plant source[12] a) Animal source [6]

- c) Synthetic source

- 3. Mineral Mixture:
 - Source and level of calcium
 - Source and level of Phosphorous
- 4. Estimation of Calcium requirement for Layers and Broilers
- 5. Estimation of Protein requirement for Layers and Broilers
- 6. Estimation of M.E. requirement of Hen
 - By Basal Energy
 - By Net Energy
 - BY Direct formula
- 7. Requirement of C.P., M.E., % of Crude fiber, Linoleic Acid, Vitamins, Minerals in Poultry Feed for Chicks, Growers, Layers, Broilers and Breeders
- 8. Estimation of Protein in a given sample of feed by Kjeldal flask method
- 9. Preparation of Feed:
 - Selection of ingredients
 - Feed formulations
 - Grinding
 - Mixing
 - Packing and storage
- 10. Prepare the feed for chicks, Layers, Broilers, with the following feed ingredients
 - Protein concentrate and Maize
 - 3 ingredients of Protein source
 - 3 ingredients of Energy source
 - 1 ingredient of mineral
 - 1 feed additive

* *** Based upon the

- A) Pearsons square formula (Concentrate and Maize)
- B) Preparing two types of mixture (Energy and Protein mix) with 6 ingredients. Simultaneous equation method

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IV – SEMESTER

Paper – IV (Theory) POULTRY DISEASES AND PHARMACOLOGY

Max. Marks: 60

UNIT - I: DISEASES AND ITS CLASSIFICATION

- 1.1 Glossary: Necrosis Gangrene Atrophy Inflammation Nephritis Hepatic Opharitis Encephalitis Pneumonia Salphengitis Rhinitis Enteritis Stomatitis Peritonitis Ascitis Peticheal Hemorrhages Exudate Biopsy Autopsy Morbidity Tumor Course of Diseases
- 1.2 Introduction and history of Microbiology
- 1.3 Diseases definition Etiology of diseases General classification
- 1.4 Prevention and control of contagious diseases

UNIT- II: VIRAL, BACTERIAL and PROTOZOAL DISEASES:

- 2.1 VIRUS Introduction to viruses: Classification of Viruses General properties, Replication, Cultivation and Purification of viruses. Cell-Virus interactions. Viral genetics. Interferon, Preventive measures of Viral Diseases
- 2.2 Raniketh Disease, Infectious Bursal Disease and Avian Encephalitis, Infectious Bronchitis and Infectious Laryngo Treacheatis, Mareks disease, Fowl Pox, Avian Influenza, ALC, IBH and Chicken Infectious Anemia
- 2.3 BACTERIA-. Morphology, structure, growth and nutrition of bacteria. Classification and nomenclature of bacteria. Sources and transmission of infection. Pathogenicity, virulence and infection. Classification –Infectious Coryza –CRD –Fowl Cholera – Pullorum – Botulism, Infectious synovitis, Fowl Typhoid, Necrotic Enteritis, Colibacillosis, Spirochetosis, and staphylococosis
- 2.4 PROTOZOAL DISEASE: Coccidiosis Histomoniases

UNIT - III: OTHER DISEASES:

- 3.1 FUNGI: Introduction, morphology, growth, nutrition, Reproduction in fungi, Classification, Mycotoxins Classification Aspergillosis Thrush Treatment and Prevention
- 3.2 Parasitic Diseases Importance Ecto-parasites Lice Ticks Mites Endo Parasites and Side effects on Poultry Drugs used to eliminate Endo parasites.
- 3.3 Deficiency Diseases: Rickets Nutritional Roup Nutritional Encephalomalacia Curled Toe Paralysis Perosis.
- 3.4 Miscellaneous disorders: Cannibalism Crop bound Egg bound Bumble foot Prolapsed of the Uterus.

UNIT - IV: PHARMACOLOGY

- 4.1 Glossary of pharmacology viz. Indian pharmacopoeia, British pharmacopoeia, meteorology
- 4.2 Weights and measures; their symbol used during prescription. Description of the Roman Words used in the prescriptions.
- 4.3 Classification of Drugs Route of Drugs Administration Length of Drug Treatment
- 4.4 FDA Approval guidelines for all Antibiotics

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Paper - IV

PRACTICALS

Max. Marks: 40

- I. Sterilization
- II. Staining methods
- III. Antibiotics Sensitivity Test
- IV. MPN Test
- V. Feacal sample examination
- VI. Blood examination
- VII. Isolation of Organisms
- VIII. Serological tests
- IX. Draw a table including Disease name, Casual Agent, Incubation period and its Important Lesions of the following Diseases
 - 1. BACTERIAL DISEASES
 - 2. VIRAL DISEASES
 - 3. PROTOZOAL DISEASES
 - 4. OTHER DISEASES
 - 5. Important Round Worms in Poultry
 - 6. Important Tape Worms in Poultry
- X. Poultry Necropsy (Post Mortem)
- XI. Commecially available Antibiotics Anti Helminthics Growth Promoters Water Sanitizers Feed Additives

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V – SEMESTER

Paper - G.E. - 1 (Theory) BREEDER AND HATCHERY MANAGEMENT

Max. Marks: 80

UNIT - I: BREEDER FLOCK MANAGEMENT

Principles of Poultry Breeding - Inheritance of qualitative and quantitative traits Methods and types of breeding -1, 2, 3, 4 Line cross breeding - Mating - Pen mating - Flock Mating - Stud Mating.

Selection: Aids to selection - Mass selection - Family selection - Reciprocal selection -Recurrent selection – Upgrading

- 1.3 Layer and broiler breeder flock management housing& space requirements. Different stage of management during life cycle
- Light management during growing and laying period

UNIT - II: FEEDING MANAGEMENT IN BREEDERS:

- 2.1 Feed restriction, separate male feeding.
- 2.2 Nutrient requirement of layer and broiler breeders of different age groups.
- 2.3 Healthcare: vaccination of breeder flock; difference between vaccination schedule of broilers and commercial birds.
- 2.4 Common diseases of breeders (Infectious and metabolic disorders) prevention.

UNIT - III: ARTIFICIAL INSEMINATION

- 3.1 Artificial insemination.
- 3.2 Fertility disorder- etiology, diagnosis and corrective measures.
- 3.3 Selection and culling of breeder flocks.
- 3.4 Economic parameters on returns from breeders- for example saleable chick/hen/production cycle etc.

UNIT - IV: HATCHERY MANAGEMENT:

- 4.1 Management principles of incubation.
- 4.2 Factors affecting fertility and hatchability.
- 4.3 Selection, care and incubation of hatching eggs. Fumigation sanitation and hatchery hygiene.
- 4.4 Disposal of hatchery waste; Sexing, grading, packing and dispatch of day old chicks. Economics of hatchery business; Trouble shooting hatch failure: importance of hatchery records, break even analysis of unhatched eggs. Bio-security in the hatchery.

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PRACTICAL

Max. Marks: 40

- 1. Male Reproductive system.
- 2. Female reproductive system
- 3. Artificial insemination.
- 4. Selection of breeder flock.
- 5. Working of hatchery Incubation requirement; incubators working, care.
- 6. Hatchery layout and equipments.
- 7. Handing of eggs prior and during incubation.
- 8. Candling.
- 9. Fumigation.
- 10. Project reports of setting up a hatchery.
- 11. Hatchery records and maintenance.
- I. INTERNSHIP (for 4 months) cum PROJECT WORK ON
 - 1. Project work on chick Management (Layers)
 - 2. Project work on Layer Management (Layers)
 - 3. Project work on Broiler Management
 - 4. Project work on Breeder Management

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(With effect from 2016-17) V – SEMESTER Paper – V (Theory) BROILER MANAGEMENT

Max. Marks: 50

UNIT - I: POULTRY HOUSING AND INCUBATION

- 1.1 Poultry Housing Poultry house equipment Principles of Housing Biological needs of Poultry Housing
- 1.2 Poultry housing construction Location General Layout Floor Walls Roof etc.
- 1.3 Incubation Natural and Artificial Incubation Requirement of Incubation Selection Handling and Care of Hatching eggs, Types of incubators Incubation periods of various species Incubation problems and their remedies.
- 1.4 Fertility and Hatchability Factors affecting Fertility and Hatchability.

UNIT - II: BROILER FARM EQUIPMENT AND BROODING

- 2.1 Broiler Farm equipment Brooders Feeders Waterers chick guard, sprayer, flame gun, vaccination kit and medication equipment, foggers and sprinklers, water pump and pipe line, weighing scale, crate, ventilation equipment, cleaning equipment, Disinfectants
- 2.2 Systems of rearing All in All out system Multiple Batch system
- 2.3 Brooding and rearing of chicks Brooding system
- 2.4 Requirements during Brooding Types of Brooders Practical aspects of Management

UNITN-III: BROILER MANAGEMENT

- 3.1 Floor space allowances Water Management and Sanitation Feeding systems
- 3.2 Vaccination programme Lighting Management
- 3.3 Summer Management of Broilers
- 3.4 Litter Management of Broilers

UNIT – IV : BROILER PERFORMANCE INDICES AND FARM RECORDS

- 4.1 Broiler performance Indices
- 4.2 Broiler Farm Records
- 4.3 Common Diseases in Broilers
- 4.4 Management factors in disease prevention

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- 1. Study of Broiler house, their designs Types and construction details –Special emphasis of space requirement.
- 2. Study of various equipments Feeders Waterers Brooders in Deep Litter
- 3. Cost and Returns of Broiler for 1000 birds

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(With effect from 2016-17) V – SEMESTER Paper – VI (Theory) LAYER MANAGEMENT

Max. Marks: 50

UNIT - I: LAYER FARM LAY-OUT AND SYSTEMS OF LAYER FARMING

- 1.1 Farm Lay-out Construction of Poultry House Types of Roofs and Roofing Materials
- 1.2 Chick House Grower House Layer House
- 1.3 Systems of Layer Farming
- 1.4 Cage System Different types of Cages

UNIT-II: CHICK MANAGEMENT

- 2.1 Chick management arrangement of brooder guards Different heat sources
- 2.2 Brooder space, watering space and feeding space requirement for chicks.
- 2.3. Nutrient requirement for chicks Feeding management of chicks Vaccination Programme
- 2.4 Debeaking Precautions to be taken before, during and after debeaking Advantages

UNIT - III : GROWER MANAGEMENT

- 3.1 Grower management floor space requirement for growers in deep litter and cage system
- 3.2 Watering space and feeding space requirement for growers nutrient requirement for growers
- 3.3 Quantitative and qualitative feed restriction for growers.
- 3.4 Deworming: Definition Objectives Methods Common Drugs used for Deworming of Round worms and Tape worms.

UNIT - IV: LAYER MANAGEMENT

- 4.1 Management of layers space requirement for layers in deep litter and cage system watering space and feeding space requirement for layers nutrient requirement for layers phase feeding during different stages of production -
- 4.2 Winter and summer management of layers
- 4.3 Moulting in layers Purpose Types of Recycling Programs Methods
- 4.4 Common diseases of layers –Nutritional deficiency diseases postmortem procedure for layers Culling of layers dead bird disposal Record keeping

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- 1. Study of Poultry house, their designs Types and construction details –Special emphasis of space requirement.
- 2. Study of various equipments Feeders Waterers Brooders in Deep Litter and Cage systems Hatching equipments etc.
- 3. Difference between Layer and Non- Layers
- 4. Cost and Returns of Layer for 1000 birds

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VI – SEMESTER
G.E – 2 (Theory)
POULTRY PRODUCTS AND TECHNOLOGY

Max. Marks: 80

UNIT - I: PRODUCTION OF CLEAN EGGS

- 1.1 Reasons for dirty eggs Remedies
- 1.2 Objectives and Principles and methods of Preservation of Shell Eggs
- 1.3 Physical And Chemical Composition of Chicken Egg Factors affecting the composition of Egg
- 1.4 Estimation of External and Internal Quality of Chicken Egg Factors affecting the quality of Eggs

UNIT - II: MANUFACTUREING OF EGG PRODUCTS

- 2.1 Physical and Chemical changes in the stored Egg Self life duration
- 2.2 Functional Properties of Egg
- 2.3 Egg Products Egg Powder Liquid Eggs Restaurant Products.
- 2.4 Industrial use of Eggs and Egg Products

UNIT - III: GRADING OF POULTRY MEAT

- 3.1 Grade I, Grade II
- 3.2 What are the abnormalities in Processed Broiler Meat
- 3.3 Preservation of Meat
- 3.4 Methods of cooking of Eggs

UNIT-IV: QUALITY OF EGG AND SANITATION

- 4.1 The Nutritive value of Eggs after cooking
- 4.2 Nutritive value of Egg Other advantages of Egg Per capita of egg in Telangana, In India and Developed countries
- 4.2 Selection of types of Detergents and Sanitizers for controlling Egg Quality and Poultry Products
- 4.3 Sources of contamination of Eggs and its Products and prevention methods.

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PRACTICAL

Max. Marks: 40

- 1. Marketing of Eggs in Telangana
- 2. Estimation of External Quality of Chicken Egg
- 3. Estimation of Internal Quality of Chicken
- 4. Processing of Broilers
- 5. Estimation of Percentage of Losses in Processing of Broilers
- 6. Preparation of Gibblets.

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VI-SEMESTER

Paper – VII (Theory) POULTRY ENTREPRENEURSHIP

Max. Marks: 50

IINIT - I: MARKETING OF EGGS

1.1 Egg Marketing - Types - Organized and Unorganized Marketing

- 1.2 Marketing Activities Collection Cleaning and Washing Candling Grading Oiling Package (Materials, Pulp Trays, Plastic Trays, Egg cartoons and other packing materials) Types of Packing Manual and Machinery packing Mode of Transportation Methods of Marketing Agencies involved(NECC): Wholesale Merchants Retailers Co-operative societies Private byes shop Agency Village buyers Auction of Eggs.
- 1.3 Major Problems in Egg Marketing
- 1.4 Factors Influencing the Marketing cost.

UNIT - II : POULTRY ENTERPRIZES

- 2.1 Factors involving to produce Eggs in Layer Farms and Other Products of Egg(Shell Utility: as a feed, Fertilizer, Decoration)
- 2.2 Different methods of cooking of Eggs
- 2.3 Marketing Channels
- 2.4 Farmer share in Egg Marketing

UNIT - III: POULTRY INSURANCE AND FINANCIAL MANAGEMENT

- 3.1 Subsidiaries by the Government for the Promotion of Egg Marketing
- 3.2 Technical Support sponsored by the Government for Marketing of Eggs
- 3.3 Technical Support sponsored by the Government for Marketing of Meat
- 3.4 The Government contribution for the construction of Egg storage

UNIT-IV: POULTRY ECONOMICS

- 4.4 Value of Broken Eggs during transportation
- 4.1 Value of the Dead Birds (Broilers) during transportation
- 4.5 Precautions to prevent mortality of Birds during transportation
- 4.6 Prevention methods for Egg Breakage during the transportation

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- 1. Simple Tests to Know the quality of Eggs
- 2. Evaluation of Dressing yield of dressed chicken
- 3. Visiting of Poultry Processing plants
- 4. Marketing methods for disposal of Eggs and Poultry Products in different making units
- 5. Visiting of cold storage of Eggs
- 6. Identification of quality defects in Eggs
- 7. Candling of Eggs

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VI— SEMESTER

Paper – VIII(Theory)

POULTRY WASTE MANAGEMENT

Max. Marks: 50

UNIT - I: POULTRY LITTER

- 1.1 Poultry Litter Bedding Material
- 1.2 Importance of Poultry Farm Pollution
- 1.3 Value of Poultry Manure

UNIT - II: POULTRY LITTER MANAGEMENT AND PRACTICES

- 2.1 Moisture management methods
- 2.2 Litter Re-utilization methods
- 2.3 Litter Amendments
- 2.4 Acidifiers and other Amendments

UNIT - III: DISPOSAL AND USES

- 3.1 Methods of disposal of faecal material
- 3.2 Types of uses of faecal materials
- 3.3 Environmental advantages due to use of poultry litter

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- 1. Preparation of manure and spreading on cropland or green land
- 2. Composition of litter
- 3. Preparing fuel from faecal material
- 4. Preparing fertilizer from poultry litter
- 5. Demonstration of litter and cage rearing systems
- 6. Feed equipments and maintenance Hammer mill mixture pellet mill types principle of working comparison of different types premix preparations quality control raw materials
- 7. Feed mill operation. Demonstration of different types of feeders waterers Foggers sprinklers etc.

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REFERENCE BOOKS

- 1. Mack O. north or Donald D. Bell, 1990. Commercial Chicken Production Manual (Fouth edition). Van Nostrand Reinhold New York.
- 2. Curtis, S.E. 1983. Environmental Management in Animal Agriculture. Lowa state University Press, Ames, IA.
- 3. Moreng, R.W. and J.S.Avens, Poultry Science and Production. Reston Publishing Co., Reston, VA.
- 4. P.C. Panda, 1995. Egg and Poultry Technology. Vikas Publishing House.
- 5. B. Mahapatra and S.C. Panda, 1989. Poultry Production. Indian Council of Agricultural research Press.

6. Jull, M.A. (2003)Successful Poultry Management.

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