Syllabus on AS 2203

POULTRY PRODUCTION WITH EMPHASIS ON PHILIPPINE NATIVE CHICKEN

Poultry Production with Emphasis on Commercial Production of PNC Outcomes

Course Outcomes (CO) and Relationship to Program Outcomes (PO)*															
After completing the course, the student must		PO**													
be able to:	a	b	С	d	e	f	g	h	i	j	k	l	m	n	0
Organize the learning experiences in identifying the enterprise to engage and the possible control measures in dealing with hindrances										D					
2. Design the housing and lay-out the ranging yards for native chickens conducive for the flock and ease in the movement of caretakers										D					
3. Prepare a simplified breeding plan for the project										D					
4. Perform and apply the practical concepts in hatching eggs and brooding chicks												D			
5. Formulate and compound least-cost organic rations												D			
6. Demonstrate skills in handling feedstuffs before, during, and after compounding												D			
7. Demonstrate knowledge in diagnosing, identifying, and controlling infections through the use of phytomedicines												D			
8. Examine the collected data for efficient farm operations											D				
9. Prepare the proper costing and the possible margins for the products											D				
10. Demonstrate skill in performing established protocols from brooding, growing, and up to the marketing of Philippine native chickens												D			

*Program Outcomes

- Central Philippine University-based
 - $a.\ Diligently\ and\ religiously\ strive\ to\ offer\ the\ best\ that\ they\ can\ to\ answer\ the\ needs\ of\ the\ world;$
 - b. Manifest the CPU Core Values instilled with them;
- PSG in BS Agriculture
 - c. Articulate and discuss the latest developments in the specific field of practice
 - d. Effectively communicate orally and in writing using both English and Filipino;
 - e. Work effectively and independently in multi-disciplinary and multi-cultural teams;
 - f. Act in recognition of professional, social, and ethical responsibilities;
 - g. Preserve and promote "Filipino historical and cultural heritage";
 - h. Generate and share knowledge relevant to specific fields in the study of agriculture;
 - i. Formulate and implement agricultural development plans and programs;
 - j. Apply scientific methods in knowledge generation and knowledge application;
 - k. Understand and apply the concepts of agricultural productivity and sustainability in the context of national, regional, and global developments;
 - *l.* Engage in agricultural production and post-production activities;
 - m. Promote sound agricultural technologies to various clients and in the manpower development for agriculture;
 - n. Employ relevant tools in information technology in solving agriculture-related problems;
 - o. And, an ability to participate in the generation of new knowledge or in research and development projects.

^{**}PO – Level: I – Introductory; E – Enabling; D – Demonstrate

Module 1: COURSE INFORMATION

Course Title Poultry Production with Emphasis on Philippine Native Chicken

Course Description Discusses different aspects of raising the Philippine native chicken from prospects,

housing designs & ranging yards by lay-outing, breeding, hatchery operation, flock nutrition & health management, recordkeeping, and production protocol of

growing native chicken for market

Prerequisites Animal Science 1 & Animal Science 2

Credit Units 3 units

Business units Lecture: 2 units Laboratory: 3 units

Textbook

Cabarles, J. (2018). Commercial Production of Organic Philippine Native Chicken.

Iloilo City: CPU Printing Press.

Learning Materials - Textbook

Online flipbookAudio-video bookRecorded lectures

Resources Needed Connectivity, Native Chicken Production Project, Mini-Feed Mill, Mini-Phytobiotic

Processing Equipment

Assessment Techniques Online and Practical Exams

Program Outcome	Topics	Course Outcome	Learning Activities					
Module 2: PRODUCTION AND MARKETING ASSESSMENT								
Apply scientific methods in knowledge generation and knowledge application	 Raiser's production practices Gender aspects in decision-making and work-sharing Production and utilization Production trends over the season Natural environment contribution to production performance Marketing of native chicken products Supply chain map of Philippine Native Chicken Pricing of live native chickens Prospects and hindrances of the Philippine Native Chicken Industry Hindrances for the commercialization of native chicken Investment opportunities 	Organize the learning experiences in identifying the enterprise to engage and the possible control measures in dealing with hindrances	 Self-learning pace through the online learning management system Teacher lead-learning process through the blended form in the online and limited face-to-face interactions Laboratory Activity #1. Finding the Market for Philippine Native Chicken 					

Program Outcome	Topics	Course Outcome	Learning Activities
Module 3: HOUSING DES	IGN AND RANGING YARD		
Apply scientific methods in knowledge generation and knowledge application	 ○ Production environment Drainage Tree cover Presence of households ○ Housing designs and yards Requirements Ease of movement for the caretaker when inside the housing Ventilation Access to natural light Flooring Housing design for Breeder stocks Grow-out 	Design the housing and lay-out the ranging yards for native chicken conducive for the flock and ease in the movement of caretakers	 Self-learning pace through the online learning management system Teacher leadlearning process through the blended form in the online and limited face-to-face interactions Laboratory Activity #2. Survey of the Project Site and Layouting of Housing
Module 4: BREEDING TE	CHNIQUES		
Apply scientific methods in knowledge generation and knowledge application	 Anatomy of the chicken Plumage color Plumage color pattern Feather distribution Feather morphology Comb type Earlobe color Skeletal variants Color of the iris Shank color Head shape Breast and body shape Body measurement Genetic groups of native chickens in the Philippines Larger genetic group Smaller genetic group Breeding techniques Breeding techniques Breeding program Cultural management of breeding stocks 	Prepare a simplified breeding plan for the project GS AND BROODING OF CH	 Self-learning pace through the online learning management system Teacher leadlearning process through the blended form in the online and limited face-to-face interactions Laboratory Activity #3. Evaluate the Sample Plan as Basis for the Development of Personalized Breeding Plan
Engage in agricultural production and post-production activities	 Hatching native chicken eggs Natural incubation Artificial incubation 	Perform and apply the practical concepts in hatching eggs and brooding of chicks	 Self-learning pace through the online learning management system

Program Outcome	Topics	Course Outcome	Learning Activities
	- Handling of eggs for incubator/setter - Incubating and candling of eggs - Handling of fertile eggs from setter to hatcher - Interpretation of common problems in hatching eggs O Sourcing of one-day-old chicks - Management of newly arrived one-day-old chicks of native chicken O Brooding of chicks of native chicken - Litter materials - Temperature - Access to feeds, drinking water, and lighting - Ventilation and humidity		 Teacher leadlearning process through the blended form in the online and limited face-to-face interactions Laboratory Activity #4. Assessment of the Efficiency of Brooder Designs in Terms of Cost and Survival Rate of Chicks
Module 6: FLOCK NUTRI			
Engage in agricultural production and post-production activities	Naturally-occurring feedstuffs Ingesta of free-range native chicken Formulating and compounding supplemental rations - Characteristics of good quality rations - Functions of rations - Supplemental rations - Supplemental rations for native chicken Amino acid profile of selected feedstuffs Handling and storing of feedstuffs and compounded rations - Handling and storage of feedstuffs and rations - Feed milling - Home-based feed milling - Community-based feed milling	Formulate and compound least-cost organic rations Demonstrate skills in handling feedstuffs before, during, and after compounding	 Self-learning pace through the online learning management system Teacher lead-learning process through the blended form in the online and limited face-to-face interactions Laboratory Activity #5. Familiarization with the Basic Procedures in Formulating and Compounding Feeds for Native Chicken

Program Outcome	Topics	Course Outcome	Learning Activities
Module 7: FLOCK HEALT	TH MANAGEMENT		
Engage in agricultural production and post-production activities	 The practical method of diagnosing diseases Examine the appearance of chicken Evaluate the places where the chickens commonly range or stray Check the housing and equipment used History of disease occurrence Life stages at which native chickens get infected Post-mortem inspection Summarize your observations Disease identification, prevention, and control Newcastle disease Chronic respiratory diseases Avian malaria Fowl pox Fowl cholera Avian influenza Infectious coryza Pendulous crop Internal parasites Herbal plants for native chicken health management Aloe vera Chili hot pepper Garlic Ginger Onion Turmeric Oregano Red seaweed Other herbal plants Equipment for the processing of phytobiotics into Meal form Pure juice extracts Tea form Tablet Capsule 	Demonstrate knowledge in diagnosing, identifying, and controlling infections through the use of phytomedicines	 Self-learning pace through the online learning management system Teacher lead-learning process through the blended form in the online and limited face-to-face interactions Laboratory Activity #6. Microbial Sensitivity Tests of Processed Phytomedicines

Program Outcome	Topics	Course Outcome	Learning Activities
Module 8: RECORDKEEP	ING FOR EFFICIENT FARM	OPERATIONS	
Understand the concepts of agricultural productivity and sustainability in the context of national, regional, and global developments	 Daily records of activities Disease occurrence record Feedstuff processing and costing Feed milling and costing Weekly feed consumption report Sales report Income and expense report Pricing of primary products 	Examine the collected data for efficient farm operations	 Self-learning pace through the online learning management system Teacher lead-learning process through the blended form in the online and limited face-to-face interactions Laboratory Activity #7. Examining the Efficiency of Native Chicken Farm Operation through Records
Module 9: ECONOMICS O	F PRODUCING NATIVE CH	ICKEN PRODUCTS	
Understand the concepts of agricultural productivity and sustainability in the context of national, regional, and global developments	 Production of native chicken eggs Production of one-day-old chicks of native chicken Production of native chicken for market 	Prepare the proper costing and the possible margins for the products	 Self-learning pace through the online learning management system Teacher leadlearning process through the blended form in the online and limited face-to-face interactions
Module 10: COMMERCIA	L PRODUCTION OF NATIV	E CHICKEN TO BE DRESSE	D
Engage in agricultural production and post-production activities	 Brooder age Cultural management Commonly occurring infections General recommendation to prevent infections Herbal plants for possible control of infections Alternative sources of vitamins and minerals Starter age Cultural management Commonly occurring diseases General recommendations to prevent internal parasites Herbal for possible control of parasites 	Demonstrate skills in performing established protocols from brooding growing and up to the marketing of Philippine native Chicken	 Self-learning pace through the online learning management system Teacher leadlearning process through the blended form in the online and limited face-to-face interactions This laboratory activity will begin after a month of lectures. Briefing on what should be done be given prior to implementing this season long exercise. Laboratory Activity #7. Growing Philippine Native Chicken for Market

Program Outcome	Topics	Course Outcome	Learning Activities
Program Outcome	Topics - Alternative sources of vitamins and minerals O Grower age - Cultural management - Commonly occurring diseases - General recommendations to prevent diseases or infections	Course Outcome	Learning Activities
	– Alternative sources of vitamins and minerals		
	 Marketing 		