Syllabus on AS 1202

INTRODUCTION TO LIVESTOCK AND POULTRY

Introduction to Livestock and Poultry

Course Outcomes (CO) and Relationship to Program Outcomes (PO)*															
After completing the course, the student must be able to:	PO**														
	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
1. Discuss the common management practices in swine production											E				
2. Differentiate the economic importance of each swine group and breed											E				
3. Compute important parameters in measuring the economics of raising swine											E				
4. Demonstrate skill in swine production											E				
5. Judge an ideal swine breeder stock											E				
6. Discuss the common management practices in poultry production											E				
7. Differentiate the economic importance of each poultry group and breeds											E				
8. Compute important parameters in measuring the economics of raising poultry											E				
9. Demonstrate skill in poultry production											E				
10. Judge an ideal poultry breeder stock											E				
11. Discuss the common management practices in dairy cattle production											E				
12. Differentiate the economic importance of each dairy cattle group and breeds											E				
13. Compute important parameters in measuring the economics of engaging in dairy animal production											E				
14. Demonstrate skill in dairy animal production											E				
15. Judge an ideal dairy animal breeder stock											E				
16. Discuss the common management practices in beef cattle production											E				
17. Differentiate the economic importance of each group and breed of beef cattle											E				
18. Compute important parameters in measuring the economics of engaging in beef cattle production											E				
19. Demonstrate skill in beef cattle production											E				
20. Judge an ideal beef cattle breeder stock											E				

***Program Outcomes**

- Central Philippine University-based
  - *a. Diligently and religiously strive to offer the best that they could 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 research and development projects.*

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

Module 1: COURSE INFORMATION

Course Title	*Introduction to Livestock and Poultry*
Course Description	*Discusses the management of farm animals for efficient production of meat, milk, eggs, and other animal products*
Prerequisites	*None*
Credit Units	*3 units*
Business units	Lecture: ***2 units*** Laboratory: ***3 units***
Textbook	Gillespie, J.R. & Flanders, F.B. (2010). *Modern Livestock and Poultry Production*. Canada: *DELMAR Cengage Learning*: (link: https://heyzine.com/flip-book/be83ac51ad.html) Cottle, D. & Kahn, L. (2014). *Beef Cattle Production and Trade*. Australia: *CSIRO Publishing.* (link: https://heyzine.com/flip-book/ddffb85b73.html) Pezza, K. (2014). *Backyard Farming: Raising Cattle*. _____, Hatherleigh Press. (Link: https://heyzine.com/flip-book/bebbe21db5.html)
Learning Materials	- *Online flipbook* - *Audio-video book* - *Recorded lectures*
Resources Needed	*Connectivity, Animal Projects, Meat Processing Equipment*
Assessment Techniques	*Online and Practical Exams*

Program Outcome	Topics	*Course Outcome*	Learning Activities
Module 2: SWINE PRODUCTION			
Understand and apply the concepts of agricultural productivity and sustainability in the context of national, regional, and global developments	○ Overview of the swine industry ○ Breeds of swine ○ Herd nutrition management ○ Management of the boar ○ Care and management of sows and gilts ○ Care and management of piglet from farrowing to weaning ○ Care and management of growing-finishing age of pig	*Discuss the common management practices in swine production* *Differentiate the economic importance of each swine group and breed* *Compute important parameters in measuring the economics of raising swine* *Demonstrate skill in swine production* *Judge an ideal swine breeder stock*	○ Self-learning pace through online learning ○ Teacher-lead learning process through the blended form in the online and limited face-to-face interaction ○ Laboratory Activity #1: ***Swine Production System*** ○ Laboratory Activity #2: ***Judging Swine Breeder Stocks*** ○ Laboratory Activity #3: ***Body Condition Score*** ○ Laboratory Activity #4: ***Evaluation of Swine Farm***
Module 3: POULTRY PRODUCTION			

Program Outcome	Topics	*Course Outcome*	Learning Activities
Understand and apply the concepts of agricultural productivity and sustainability in the context of national, regional, and global developments	○ The poultry industry ○ Poultry species ○ Breeds and breeding ○ Flock nutrition management ○ Hatchery management ○ Phases of growth ○ Layer-breeder management ○ Broiler production	*Discuss the common management practices in poultry production* *Differentiate the economic importance of each poultry group and breeds* *Compute important parameters in measuring the economics of raising poultry* *Demonstrate skill in poultry production* *Judge an ideal poultry breeder stock*	○ Self-learning pace through online learning ○ Teacher-lead learning process through the blended form in the online and limited face-to-face interaction ○ Laboratory Activity #5: ***External and Internal Structures of the Chicken and Duck Industry*** ○ Laboratory Activity #6: ***Poultry Breeding and Hatchery Management*** ○ Laboratory Activity #7: ***Poultry Housing and Equipment*** ○ Laboratory Activity #8: ***Management Skills in Poultry Production***
Module 4: DAIRY CATTLE PRODUCTION			
Understand and apply the concepts of agricultural productivity and sustainability in the context of national, regional, and global developments	○ Overview of the dairy production ○ Breeds of dairy animals ○ Dairy animal production ○ General dairy herd management ○ Pasture management ○ Forage preservation management	*Discuss the common management practices in cattle production* *Differentiate the economic importance of each dairy cattle group and breeds* *Compute important parameters in measuring the economics of engaging in dairy animal production* *Demonstrate skill in dairy animal production* *Judge an ideal dairy animal breeder stock*	○ Self-learning pace through online learning ○ Teacher-lead learning process through the blended form in the online and limited face-to-face interaction ○ Laboratory Activity #9: ***Dairy Farm Requirements and the Milk Supply Chain*** ○ Laboratory Activity #10: ***Identifying a Good Dairy Cow and Other Dairy Animals*** ○ Laboratory Activity #11: ***Simple Ration Formulation for Lactating Cows*** ○ Laboratory Activity #12: ***Management Skills in Poultry Production***
Module 5: BEEF CATTLE PRODUCTION			

Program Outcome	Topics	*Course Outcome*	Learning Activities
Understand and apply the concepts of agricultural productivity and sustainability in the context of national, regional, and global developments	○ Overview of the beef cattle industry ○ Beef production systems in the Philippines ○ Beef cattle breeds, breeding, and reproduction ○ Nutrition ○ Herd management ○ General management practices ○ Animal health program	*Discuss the common management practices in beef cattle production* *Differentiate the economic importance of each beef cattle breed* *Compute important parameters in measuring the economics of engaging in beef cattle animal production* *Demonstrate skill in beef cattle animal production* *Judge an ideal beef cattle breeder stock*	○ Self-learning pace through online learning ○ Teacher-lead learning process through the blended form in the online and limited face-to-face interaction ○ Laboratory Activity #13: ***Beef Cattle Production Systems and Supply Chain*** ○ Laboratory Activity #14: ***Beef Cattle Breeds, Breeding, and Reproduction*** ○ Laboratory Activity #15: ***Beef Cattle Feeds and Feeding*** Laboratory Activity #16: ***Rope Exercises and Cattle Handling***