

University of <u>Salahaddin-Erbil</u> College of <u>Agricultural Sciences Engineering</u> Department of <u>Animal Resource</u> Subject: <u>Poultry Production (</u>Course Book) Grade: 3rd Lecturers' Names: <u>Dr. Sheren Dhahir Mohammad</u> <u>Mrs. Zhila Muslih Majeed</u> Academic Year: 2024-2025

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1. Course name	Poultry Production	
2. Lecturer's Name	Sheren Dhahir Mohammad	
	Zhela Muslih Majeed	
3. Department/ College	Animal Resource	
4. Contact	e-mail:: shireen.mohammad@su.edu.krd Tel: 07504629928	
	e-mail:: zhela.majeed@su.edu.krd Tel: 07509089996	
5. Time (in hours) per week	Practical: 2	
6. Office hours	Available from Sunday to Thursday.	
7. Course code		
8. Teacher's academic profile	Sheren Dhahir Sheren Dhahir Sheren Dhahir Msc. in Poultry Production (2015) PhD. in Poultry Production (2024)	
	Zhila Muslih Bsc. in Animal Resource Dept. (2010) Msc. in Poultry Production (2022)	
9. Keywords	Poultry, rearing, production, meat, egg, quality	

Course Book

10. Course overview:

The goals of this **course** is getting **learning outcomes through obtaining knowledge and understanding the principles** and practices of commercial poultry production. Beside the **Intellectual Skills that include** thinking for how to deal with field problems. Solving unexpected problems in poultry houses. Practice and applications of modern techniques in poultry industry. Many changes have happened in poultry housing in recent years, such as the introduction of computer monitoring and control of the machines, and many automations from day-to-day in poultry production operations. Additionally, there is increasing awareness of the role of brooding and growing management skills of different poultry categories. Training students to poultry performing survey observations, analyzing results and poultry production quality assessment.

Each group of students will get the lecture as an hour lecture and two hours Lab. per week deals with many studies, in laboratory practically displaying and/or through images and videos meat type birds; housing, brooding and raising requirements; poultry performance evaluating methods; slaughtering and slaughter house operations; carcass and poultry meat quality assessment. As well as, showing types of eggs, all shapes and sizes of table eggs that exist in markets and produced by local breeder flocks and hybrids. Egg quality assessing methods for differentiating good and non-good commercial eggs. Furthermore, visiting commercial poultry projects that exist in Erbil Province to get more notes and information of experts.

11. Course objective:

The aim of the course is to provide the understanding poultry industry, past and present, basic concepts of poultry requirements in housing, brooding and rearing managements. As well as, the technologies of producing high quality table eggs and poultry meat, marketing principles of poultry product and by-products, poultry house records and record analysis.

12. Student's obligation

- Quizzes will occur each week and will cover the material presented during the previous week lecture.
- Students are required to wear lab-coat at each class.
- > Students must pay attention in class to record their notes.
- > Students that disrupt the class during lecture will be removed from the lesson.
- > Cell phones and other electronic devices are PROHIBITED in the classroom.

13. Teaching and Learning Methods:

- Displaying the information through data show via power point slides, images, videos show. In addition to white board and colorful markers.
- ▶ Discussions and Class activities
- ▶ Poultry farm project models training
- Seminars by student groups and within class discussions

Facilities Required for Teaching and Learning

- Small group of students.
- ▶ Up- to- date references in library.
- Well-equipped poultry houses and rearing pens
- Medium size flocks of chicken, quail...etc

14. Assessment scheme

1- Assessment 1: Class tests weekly (activities and written quiz) to assess understanding of previous lecture.

2- Assessment 2 and 3: Written <u>monthly exams</u> to assess student understanding of the taught topics and practical application in solving problems. Tow monthly exams will be done (15 marks/exam); the exams will be done after every 4 lectures (5th lecture is exam)

Weighing of assessments (in each semester):

	Exam	<u>Marks/Exam</u>
Assessment 1	Class tests	5
Assessment 2	Written <u>monthly</u> (1	.) 15
Assessment 3	Written monthly (2	2) 15
Total Marks/ semester		35

15. Examination's question bank:

Q1/ By a diagram explain brooder temperature effects on chicks distribution (Marks)

Q2/ Mention the following:-(Marks)

- 1. Factors affecting poultry meat consumption.
- 2. Factors affecting on egg production
- 3. Classification of poultry according to type of production and give an example
- 4. Explain the exterior and interior of egg quality in egg grading?

Q3/ What is slaughterhouse? Arrange the following slaughtering processes sequentially:- a) livebird supply and shackling; b) chilling; c) Whole bird selection by weight and quality; d) stunning, killing, bleeding, scalding and plucking; e) Whole bird, cuts and deboned product packing; f) evisceration and giblet handling; g) cut-up, deboning; h) freezing and/or chilled storage.

(Marks)

Q4/ A broiler flock their average live body weight was 3050 g. After slaughtering carcass weight was 2.2 Kg; breast weight was 910g; thigh weight was 840g; giblets weight was 170 g. Calculate Dressing percentage without giblets. (Marks)

16. General student learning outcome:

- a) Experience in team work and critical analyses in relation to poultry production.
- b) Handling and management of large number of chickens, turkey, water fowls; quails,.... etc .

Solving problems skills: the student will demonstrate knowledge of poultry production facilities and solving the practical problems that interface owners who raise poultry.

17. List of References:

1. Essential Books:

- A. Alternative Systems for Poultry Health, Welfare and Productivity. 2012. Victoria Sandi lands and Paul M. Hocking. CAB International publication. ISBN 978-1-84593-824-6 (alk. paper).
- B. Improving the safety and quality of eggs and egg products. 2011. Volume 1: Egg chemistry, production and consumption. Yves Nys, Maureen Bain and Filip Van Immerseel. Woodhead Publishing Series in Food Science, Technology and Nutrition: No. 213.
- **C. Handbook of Poultry Science and Technology. 2010**. Volume 1. Isabel Guerrero-Legarreta. A John Wiley & Sons, Inc., Publication.

D. Handbook of Poultry Science and Technology. 2010. Volume 2. Isabel Guerrero-Legarreta. A John Wiley & Sons, Inc., Publication.

18. Lectures' Topics:	Lecturer's Name
<u>1st Lecture</u> : Introduce course book, lessons' keywords and the importance of each lecture.	Shireen Dh. Mohammad (2 hrs) 26/9/2024
<u>2nd Lecture:</u> Formation of a Hen's Egg Functions of the Hen's Oviduct Chemical Composition & Nutritional Benefits of Eggs Egg Structure and composition	Zhila Muslih Majeed (2 hrs) 3/10 /2024
<u>3rd Lecture:</u> Egg quality parameters	Zhila Muslih Majeed (2 hrs) 10/10 /2024
<u>4th Lecture</u> : Official Holiday	Zhila Muslih Majeed (2 hrs) 17/10/2024
 <u>5th Lecture:</u> Factors affecting egg production in layers Vaccination and disease control: Newcastle Disease (NCD) Infectious Bronchitis (IB) Egg Drop Syndrome (EDS) 	Zhila Muslih Majeed (2 hrs) 24/10/2024
<u>6th Lecture:</u> First Exam	Zhila Muslih Majeed (2 hrs) 31/10/2024
<u>7th Lecture</u> : Poultry breeds classification Definition; Poultry classification, classification of poultry according to origin, classification on the basis of production.	Sheren Dhahir Mohammad (2 hrs) 7/11/2024
 <u>8th Lecture:</u> Poultry Meat Production Meat type poultry: Definition Steps of preparing broiler poultry house for receiving chicks. <u>Productive</u> Performance parameters as: Body weight and Body weight gain Feed consumption and feed conversion ratio Percentages of mortality and <u>liveability</u> Production efficiency (index) 	Sheren Dhahir Mohammad (2 hrs) 14/11/2024

<u>9th Lecture: Official Holiday (Population counting)</u>	Sheren Dhahir Mohammad (2 hrs) 21/11/2024
 <u>10th Lecture:</u> Marketing the live broilers ➢ Primary Poultry processing, operations done during slaughtering process. ➢ Judging quality. 	Sheren Dhahir Mohammad (2 hrs) 28/11/2024
<u>10th Lecture:</u> Second Exam.	Sheren Dhahir Mohammad (3 hrs) 5/12/2024
19. Extra notes: Here the lecturer shall write any note or comment that is not cov wishes to enrich the course book with his/her valuable remarks.	vered in this template and he/she
This course book has to be reviewed and signed by a peer. T	پێداچوونـهو he peer approves the contents of
your course book by writing few sentences in this section. (A peer is person who has enough knowledge about the subject be a professor, assistant professor, a lecturer or an expert in the	•