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**Department of Animal Resources**

**College of Agriculture**

**University of Salahaddin- Erbil- Iraq**

**Subject: POULTRY MANAGEMENT**

**First SEMESTER**

**Course Book – (Stage 3)**

**Lecturer's name:**

**Abdullah Talal (PhD) - Theory**

**Sami Mahdi (MSc) - Practical**

**Academic Year: 2018/2019**

**Course Book**

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| **1. Course name** | **Poultry Management** |
| **2. Lecturer in charge** | **Dr. Abdullah Talal** |
| **3. Department/ College** | **Animal Resources Department / Agriculture College**  |
| **4. Contact** | E**-mail:** **abdullah.scott@su.edu.krd****Tel: 07504478072** |
| **5. Time (in hours) per week**  | **Theoretical : 2** **Practical: 3**  |
| **6. Office hours** | **5 days a week**  |
| **7. Course code** |  |
| **8. Teacher's academic profile**  | **I pursued my B.Sc degree at the Department of Animal Resource, Faculty of Agriculture, University of Salahaddin and graduated in 2005. After I finished the B.Sc program, in 2005, I joined the Department of Animal Resource, Faculty of Agriculture, University of Salahaddin 2005 – 2008 as a research assistant. I started my M.Sc program in the Faculty of Agriculture, University of Russia in 2008, focusing my research interests in the areas of poultry nutrition and in ovo nutrition. After finishing the M.Sc program, in 2010, I worked as an assistant lecturer in the Salahaddin University until 2013. In 2013, I was awarded a scholarship by the Ministry of Higher Education and Scientific Research, Kurdistan Region, Iraq to pursue my Doctor of Philosophy in poultry nutrition and metabolism. I started my PhD program on September, 2013 at the Faculty of Health and medical science, University of Copenhagen to continue further research on growth performance and meat quality in broiler chickens fed through in ovo injection nano menirals. I have finished My PhD study in 2017.** **Now I’m one of the members in the Department of Animal Resource, Faculty of Agriculture, University of Salahaddin as a lecturer.** |
| **9. Keywords** | **Poultry Management****Poultry Nutrition** |
| **10. Course overview:** **The importance of studying this subject is to teach students manage poultry on a small or large scale, and for production of eggs, meat or young birds. Students will become skilled in all aspects of poultry care and management, including: terminology, breeds, nutrition, disease, layers, broilers, incubation, brooding, record-keeping, economics and marketing. Poultry been on the earth for over 150 million years, during back to the original (Wild Jungle Fowl). Chicken been domesticated, offered them good environment and management. Poultry production is part of the animal production, which give the human large source of animal protein. The poultry is the main source to produce eggs and meat, with the high feed efficient and easy in digested and rich in feed material. The poultry have good ability to convert the food substance which do not been used by human food to useful protein for human feeding such as eggs and meat. The primary purpose of poultry industry is to produce inexpensive source of protein for human consumption. The number of eggs per layer has increased from 227 eggs per hen in 1973 to 257 in 2000. In the broiler industry before 1940, the broiler chicken body weight was not more than 1500 g at marketed age at 16 weeks or 112 days. In 1976 chicken body weight was not more than 2000g at the age of 63 days. In year 2006 the average body weight for male and females was 3052g at49 day (7week). There is a boom now, in large growth speed today, the broiler chicken is being reared to heavier weight and is marketed at less than 36 days (6week).** |
| **11. Course objective:****Goals of the theoretical Section of Poultry management as follows:****To inculcate students, farming skills of poultry farming and management+ Free-Range.****To stimulate student poultry project development (The Laying Flock)- (Broilers) (Turkey)-(Waterfowl)- Game Birds) and other poultry project (Pigeons and Guinea fowl).****To prepare student for future studies, in poultry and produce prospective future poultry farming.****Give a basic outline for poultry management to produce meat and eggs.****To stimulate and sustain students interests in raising poultry.****To enable students, acquire basic knowledge and practical skills in rearing poultry produce meat and eggs.****Explain the concept of flock health management and give specifics regarding poultry house management.****Inform student about poultry house- (Floor Housing). And (Cage Housing).****Explain the nutritional benefits of various poultry products for humans.** |
| **12. Student's obligation****The student commitment to the presence in the lecture before entering the lecture.****Commitment and focus silently during the performance of lecture.****Commitment exam after four lecture and two reports must be submitted within one year.** |
| **13. Forms of teaching**I use the projector to display my objectives by power point, sometimes we need to write some information on the white board to clarify it. I will give all my objectives on the word paper to my students. |
| 1. **Assessment scheme**
* **Written tests (1 × 15%) = 15%**
* **Quiz/attendance (5 × 2%) = 10%**
* **Written final examination (1 × 40%) = 40%**

 **= 65% total theory*** **Written tests (1 x 10%) = 10%**
* **Quiz/attendance and Reports = 5%**
* **Written final examination (1 x 20%) = 20%**

 **= 35% total practical** |
| **15. Student learning outcome:****We with students should make every effort to improve skills as much as possible and heavily focused on technical knowledge of different aspects of poultry science.** **We should be familiar with as many of these aspects.****Poultry course should have a balanced combination of scientific and industry-oriented content. The poultry industry currently seems to be focusing less of technical skills and more on abilities such as people and business skills. Students should try to develop these skills to remain competitive in the job market.****The business, economic and social science is of critical importance to better understand the intricacies of the poultry industry epically when it comes to decision making at production and marketing.****Students as leaders of tomorrow will also be evaluated based on their personal characteristics such as integrity, keenness, willingness to accept responsibility, and their ability to make meaningful decision while working as a team member with other. We need to realize that our decisions made at any stage of life may not always be correct. Everybody makes mistakes and this is an undeniable reality of life. However, it is very important that we learn form our mistakes.** |
| **16. Course Reading List and References‌:**

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| --- | --- | --- | --- |
| **Reference Title** | **Author(s)** | **Year** | **Library code** |
| **Free-Range Poultry** | **Katie Thear** | **1997** |  |
| **Poultry Breed and Management** | **David scrivener** | **2008** |  |
| **Raising Poultry** | **Leonard S. Merica** | **2003** |  |
| **The poultry Science** | **L. C. R. Norros Elye** | **2008** |  |
| **The Poultry Farmers and Managers Veterinary Hand book** | **Peter Wlaing** | **2003** |  |
| **www.poultry.com** | **Web site** |  |  |
| **www.syriavet.com** | **Web site** |  |  |
| **www.kananaonline.com** | **Web site** |  |  |
| **British Wild Life** | **Miles Keily** | **2013** |  |
| **Manual De Cresterea Pasarilor** | **Laurence Beeken** | **2010** |  |
| **Cobb-vanterss.com** **Breeder Management Guide** | **Web site** | **2008** |  |

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| **17. The Topics:**

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| **Week** | **Course Subject** | **Course Objective** |
| **1.** | **Introduction** | **Commercial production for meat breeds** |
| **2.** | **Temperature Humidity** | **Factors influencing poultry production.(Temperature)****Effect of low temperature****Effect of high temperature****Humidity****Effect of low humidity****Effect of high humidity** |
| **3.** | **Ventilation** | **Ventilation****Poultry ventilation benefits****The effect of gases in poultry houses Carbon dioxide CO2****Hydrogen sulphate H2S****Ammonia gas** |
| **4.****5.****6.** | **Hatchery****First exam****Visit and watch** | **Condition to be provided in the fertilized eggs to the hatchery contained.****Elements of hatching.****Temperature, ventilation, humidity, turning, embryonic mortalities.****Hatcheries in Grdarash Farm** |
| **7.** | **Brooding** | 1. **Early period and reasons.**
2. **The middle period**
3. **The last period**

**The comparison between good chicks and bad chicks** |
| **8.** | **Density of birds in housing** | **The density is determined by many factor****Temperature, ventilation, strain, and race of the birds****Age and type of birds****Affect of different birds****Affect of different bird densities per unit area****Broiler, layers, floor system, cage system** |
| **9.** | **Reasons related** | 1. **Reasons related to nutrition**
2. **Reasons related to administration**
3. **Reasons related to the state of health**

**Causes of bruises and damages in broiler bodies** |
| **10.** | **The cost** | **The cost of poultry production****Broiler breeder management****Period of breeding****Partitioning in breeder houses** |
| **11** | **Targets** | **For partitioning the breeder house****Goals of breeding during the period of growth for the breeders flock.****Administrative procedures required to achieve the targets.** |
| **12** | **The justification** | **The justification for feed restriction for breeders flock****Food restriction systems****The advantages and disadvantages of the methods** |
| **13.** | **Molting** | **Force molting, why do poultry mean recycle force molting requisites, types of recycling** **Comparison of first and second laying cycle** |
| **14** | **Waste** | **Waste management** |
| **15** | **Record management** | **Record management****Biosecurity** |
| **16** | **Poultry production management** | **Poultry production management in hot climates****Poultry welfare** |
| **18. practical topics** |
| 1. **Introduction about poultry farms and poultry houses different types.**
2. **Design and distances of poultry houses.**
3. **Litter.**
4. **Nests.**
5. **Roosts.**
6. **Heating System**
7. **Feeders and Drinkers**
8. **Visiting and Working in our poultry houses in the college's farm.**
9. **Cooling system**
10. **Fogging cooling system and positive cooling system.**
11. **Lighting system**
12. **Ventilation system.**
13. **Measuring ventilation requirement in poultry houses.**
14. **The production performance for poultry flocks**
15. **Visiting the broiler breed house to see a type of cooling system and how put the fans by correct way and number.**
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 | **Lecturer's name****Dr. Abdullah Talal** |
| 7/2/201914/2/201921/2/201928/3/20197/3/201928/32019ex: (2 hrs)4/4/201911/4/201918/4/201925/4/2019Msc. Sami Mahdi |
| **19. Examinations:****In regard to this subject the type of exam will be as follow**:1. Explain **how** or **what** are the reasons for or explain…?,

Examples:* What is the reason of the …………………..?Typical answer:
* Define ……………? Explain in detail what are the factors which affect the ……………………….
1. **True or false type of exams**: In this type of exam a short sentence about a specific subject will be provided, and then students will comment on the trueness or falseness of this particular sentence.

**Example: Put letter F (false) or letter T (true) in front of the following:**1. Multiple choice: In this type of exam there will be a number of phrases next or below a statement, students will match the correct phrase.

Example: ……………….. 1-2- |
| **20. Extra notes:**Here the lecturer shall write any note or comment that is not covered in this template and he/she wishes to enrich the course book with his/her valuable remarks. |
| **21. Peer review پێداچوونه‌وه‌ی هاوه‌ڵ** This course book has to be reviewed and signed by a peer. The 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 you are teaching, he/she has to be a professor, assistant professor, a lecturer or an expert in the field of your subject).*ئه‌م کۆرسبووکه‌ ده‌بێت له‌لایه‌ن هاوه‌ڵێکی ئه‌کادیمیه‌وه‌ سه‌یر بکرێت و ناوه‌ڕۆکی بابه‌ته‌کانی کۆرسه‌که‌ په‌سه‌ند بکات و جه‌ند ووشه‌یه‌ک بنووسێت له‌سه‌ر شیاوی ناوه‌ڕۆکی کۆرسه‌که و واژووی له‌سه‌ر بکات.هاوه‌ڵ ئه‌و که‌سه‌یه‌ که‌ زانیاری هه‌بێت له‌سه‌ر کۆرسه‌که‌ و ده‌بیت پله‌ی زانستی له‌ مامۆستا که‌متر نه‌بێت.‌‌  |