 

Department of Animal Resources

College of Agricultural engineering sciences University of Salahaddin- Erbil- Iraq Subject: POULTRY PRODUCTION

First SEMESTER Course Book – (Stage 3) Lecturer's name:

Assist. Prof. Dr. Nidhal A. Mustafa

Dr. Bnar F. Sulaiman

Sheerin Daher - Practical Academic

Year: 2022/2023

Course Book

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| **1. Course name** | **Poultry Production** |
| **2. Lecturer in charge** | **Assist. Prof. Dr Nidhal Abdulgani Mustafa**  **Dr Bnar F. Sulaiman** |
| **3. Department/ College** | Animal Resources Department / Agricultural engineering sciences |
| **4. Contact** | **E-mail: nidhal.mustafa@su.edu.krd Tel: 07506926313**  [**bnar.sulaiman@su.edu.krd**](mailto:bnar.sulaiman@su.edu.krd) **Tel: 07504609927** |
| **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** | **Dr. Nidhal Abdulgani Mustafa**  **Dr. Bnar Fouad** |
| **9. Keywords** | **Poultry Production**  **Poultry Management Poultry Nutrition** |
| **10. Course overview:**  Many changes have happened in poultry housing in recent years, such as the introduction of computer monitoring and control of the machines, and many automation 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.  In this **course** the **Intended Learning Outcomes (ILOs) are knowledge and understanding the** Principles and practices of commercial poultry production. Principles and practices of environmental management. Beside the **Intellectual Skills that include** raising thinking for how to deal with field problems. Solving unexpected problems in poultry houses. Practice and applications of modern techniques in poultry industry. Train students to poultry performing survey observations, analyzing results and poultry production quality assessment. Ability to diagnose environmental problems and reasons of lower hatchability and productivity.  One hour lecture, 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 going to some commercial poultry houses that present in Erbil Governorate to get more notes and information that explained by the experts. | |

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| **The aim of the course is to provide the understanding poultry production 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**  **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. |
| **12. Assessment scheme**   * **Written tests (1 × 15%) = 10%** * **Quiz/attendance (5 × 2%) = 5%** * **Written final examination (1 × 15%) = 15%**   **= 50% total theory**   * **Written tests (1 x 30%) = 30%** * **Quiz/attendance and Reports = 5%** * **Written final examination (1 x 35%) = 35%**   **= 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** |

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| **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:** | |
| 1. **The Topics:**   **Week Course Subject Course Objective**   * 1. **Introduction.poultry Poultry Terms to Know Breeds &Chickens.SomeEggproducing**   **breed .** |  |
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| **Reference Title** | **Author(s)** | **Year** | **Library code** |
| **Commercial Chicken Production Manual** | **North, M.O** | **1978** |  |
| **Poultry Farm Manual A Reference Guide For Central & State Poultry Farms** | **Dolphin Printo- Graphics** | **2015** |  |
| **Raising Poultry** | **Leonard S. Merica** | **2003** |  |
| **The poultry Science** | **L. C. R. Norros Elye** | **2008** |  |
| [**www.poultry.com**](http://www.poultry.com/) | **Web site** |  |  |
| [**www.syriavet.com**](http://www.syriavet.com/) | **Web site** |  |  |
| [**www.kananaonline.com**](http://www.kananaonline.com/) | **Web site** |  |  |
| **British Wild Life** | **Miles Keily** | **2013** |  |
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|  | **2.** | **Raising of Poultry to**  **obtainPoultry Products** | **Brooding**   1. **Brooding Methods** 2. **The Brooder**    1. **The Surround or Guard Brooder**    2. **The Battery Brooder**    3. **The Tier Brooder** 3. **Preparation for the Arrival of Chicks** 4. **Handling of Chicks on Arrival** 5. **Management of Chicks in the** |
|  |  | **Brooder** |
|  | **3.** | **Rearing of chicks&**  **Production of Egg.** | **Rearing**   1. **Facilities and Equipment Required for Rearing**    1. **Housing**    2. **Feeding and Watering** |
|  |  | **Troughs.** |
|  |  | **Laying Birds**   1. **Indices for Evaluating the Performance of the Layer** 2. **The Egg Producing Cycle** 3. **Factors Affecting the** |
|  |  | **Performance of the Layer.** |
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|  | **4.** | **TheNutrient** | 1. **Energy requirements** 2. **Protein requirements** 3. **Mineral requirements** 4. **Vitamin requirements** 5. **Water requirements** |
|  | **Requirementsof** |
|  | **Poultry** |
|  | **Exam** |  |  |  |  |
| **5-** | **Management factors for breeding stock** | 1. **Genetic make-up of the parent stock** 2. **The housing of the flock** 3. **Flock health and applied vaccination program** 4. **Feed and water** 5. **Male to female ratio** |

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|  |  |  | **6. Age of the flock** |  |  |
| **7. Flock performance** |
|  | **6.** | **Chicken Molting** | **1-Why Do Chickens Molt?** |
|  |  | **2-When Do Hens Molt?** |
|  |  | **3-How Long Does The Molt** |
|  |  | **Take?** |
|  |  | **4-How to Care For Chickens** |
|  |  | **during the Molt.** |
|  |  | **5- Methods of Molting.** |
|  | **7.** | Heat stress in poultry | What is heat stress?Signs of Heat StressEffect of Heat Stress on the Immune ResponseHow do birds lose heat? |
|  | **8.** | **How to Control Heat Accumulation in Poultry** | Evaporative CoolingVentilation |
|  | **9.** | **Quail Production** | 1. **Advantage of Quail Farming** 2. **Quail Bird Characteristics** 3. **Housing System Management in Quail Farming** |
|  | **10** | **Quail Farming** | 1. **Breeds in Quail Farming** 2. **Feed Management in Quail Farming** 3. **Disease Management in Quail Farming** |
|  | **11** |  |  |
|  | **12.** |  |  |
|  | **13** |  |  |
|  | **14. practical topics** | | |
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| 1. **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: | | | | | |

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| 1. 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. Heat production is affected by **......., .......** and **.......** level of production. 2. quail weighs about **.......** grams. 3. Quail eggs weighs about **.......** grams. 4. Quails lay about **.......** eggs in the first year. 5. The Incubation time for quail egg is about **.......** days. 6. Housing System Management in Quail Farming **.......** and **....... .** 7. Quality control must begin with inputs of production **......,** **...... ......** and **...... .** 8. Adding small amounts of **......** to water **......** times a week. 9. **How do birds lose heat,** 10. **pointe and explain only one?** 11. **Numerate types of breeds with sample.** |
| **16. 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. |
| **پێداچوونهوهی هاوهڵ review Peer 17.**  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 لهالیهن 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. |