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**Department of Animal Resource**

**College of Agriculture**

**University of Salahaddin**

**Subject: Animal and Poultry Hygiene**

**Course Book –Year (10)**

**Lecturer's name:**

**Assis. Prof. Jinan Najdat Abdulrahman**

**Academic Year: 2023/2024**

**Course Book**

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| **1. Course name** | **Animal and Poultry Hygiene** |
| **2. Lecturer in charge** | **M.Sc. Jinan.N.Abdulrahman** |
| **3. Department/ College** | **Animal Resource/Agriculture College** |
| **4. Contact** | **e-mail: jinan.abdulrahman@su.edu.krd** |
| **5. Time (in hours) per week**  | **Practical: 2hours , (2×2=4)hours**  |
| **6. Office hours** | **6 hours** |
| **7. Course code** |  |
| **8. Teacher's academic profile :** | Teaching Academics are skilled and passionate teachers and educators and will be the key drivers of the University's teaching and learning strategy. Teaching Academic positions are for academic staff that wish to pursue a career in which teaching is their primary focus, and are committed to leading innovation in their discipline, division and beyond.Crossing the Horizon, and the Digital Learning Strategy, developing teaching and supervision practice, internal and external grants and awards, Assistance is available in a range of areas in the form of online resources, one-on-one and small group meetings, seminars, workshops and project-based work for matters such as curriculum development, assessment, group work, feedback, supervision of Higher Degree by Research students, technology-enhanced teaching and learning, embedding Graduate Qualities and more. the Academic Development team can offer assistance, including co-authorship, to locate and critically review relevant literature, as well as research design and data analysis. |
| **9. Keywords**  | Teaching Academic Standards of Performance, Minimum Qualifications for Academic Staff, Procedure to transition current academic staff to continuing Teaching Academic positions. |
| **10. Course overview:**Objectives and scopes of livestock and poultry hygiene and management. Common abnormal behaviors of Livestock and Poultry. Principles of handling of livestock and poultry. Dentition and ageing of livestock. Rearing and Management of Livestock and Poultry. Sanitation: Cleaning and disinfections of poultry houses and equipment’s; disinfectants and their application; fumigation and its importance. Hygienic and economic importance of housing and selection of sites for animal and poultry farm. Safety of animal and poultry feed ingredients. Hygienic preparation of livestock and poultry houses before receiving the newly introduced livestock and poultry. |
| **11. Course objective:** Students to be able to identify hygienic environments for rearing of livestock and poultry. Hygienic Management of hatchery, breeder, layer and broiler farms. Hygienic management concerned with breeding, feeding and transport of livestock and poultry. Bio-security and bio-safety of livestock, poultry and laboratory animals. Vaccine and vaccination schedule. Hygienic measures for the prevention and control of infectious and contagious diseases of livestock and poultry. Practical demonstration of ageing of livestock. Livestock and poultry carcass inspection, post-mortem techniques and examination. |
| **12. Student's obligation:** Refers during an academic evaluation to materials or sources, or employs devices, not authorized by the faculty member, Provides assistance during an academic evaluation to another person in a manner not authorized by the faculty member, Receives assistance during an academic evaluation from another person in a manner not authorized by the faculty member, Engages in unauthorized possession, buying, selling, obtaining, or use of any materials intended to be used as an instrument of academic evaluation in advance of its administration, Acts as a substitute for another person in any academic evaluation process, Utilizes a substitute in any academic evaluation proceeding, Practices any form of deceit in an academic evaluation proceeding, Depends on the aid of others in a manner expressly prohibited by the faculty member, in the research, preparation, creation, writing, performing, or publication of work to be submitted for academic credit or evaluation, Provides aid to another person, knowing such aid is expressly prohibited by the instructor, in the research, preparation, creation, writing, performing, or publication of work to be submitted for academic credit or evaluation, Presents as one's own, for academic evaluation, the ideas, representations, or words of another person or persons without customary and proper acknowledgment of sources, Submits the work of another person in a manner which represents the work to be one's own, Knowingly permits one's work to be submitted by another person without the faculty member's authorization, Attempts to influence or change one's academic evaluation or record for reasons other than achievement or merit, Indulges, during a class (or examination) session in which one is a student.  |
| **13. Forms of teaching:** The lecture, independent work, power point, data show, seminar, The laboratory training, practical training, Field study, a course paper/project, Verbal or oral method, smart book, note book, Written method. |
| **14. Assessment scheme:** Identification of sources of information, collecting the information (sampling and verifying), evidence (records, interviews), evaluate the evidence against criteria, review findings and conclusions, and report of the findings.‌ |
| **15. Student learning outcome:**Along with increased competition for the best students and the most lucrative grants, institutions of higher education are also facing increased scrutiny to improve student learning and demonstrate program effectiveness. ETS's ongoing research offers administrators and school leaders a detailed look at how assessments have progressed over the years, and how an evidence-based assessment system for student learning can benefit today's. |
| **16. Course Reading List and References‌:**1. Livestock Husbandry Techniques, by McNitt, J.I. (1993). Granada Publishing Ltd. London.
2. A text Book of Animal Husbandry, by banerjee, G.C. (1999). Eight Edition, Oxford and IBH publishing Co. New Delhi 11001. India.
3. An Introduction to Animal Husbandry in the Tropics, by Williamsong, G. and Payne, W.J.A. (1978). Third Edition, Longman Group Ltd., England.
4. Fundamentals of Animal Hygiene and Epidemiology, by Thapliyal, D.C. (1996). First Edition, international Book Distributing Co.
5. Haq, A. and T. Ahmad. 2001. Poultry hygiene and Disease Prevention Pak Book Empire, Lahore, Pakistan.
6. Herenda, D. C. and Franco, D.A. 1996. Poultry disease and Meat Hygiene, A Color Atlas. Iowa State University Press, Ames, Iowa, USA.
7. Jordan, F.T.W. (Editor) 1996. Poultry Diseases. English Language Book Society, London.

HACCP in Meat, Poultry and Fish Processing (First Edition-2017) Hardcover – 1 January 2017by [Rajat Sinha](https://www.amazon.in/s/ref%3Ddp_byline_sr_book_1?ie=UTF8&field-author=Rajat+Sinha&search-alias=stripbooks) (Autho |
|  **17. The Topics :**  | **Lecturer's name** |

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| **18. Practical Topics (If there is any):** |
| ***Topics*** |  **Lecturer's name** | ***Weeks* (3-6 hrs)** |  |
| **LEARING PRINCEPLE OF Maintaining hygiene practices reduces the spread of illness and risk of medical conditions AND meaning of HACCP management system in which food safety is addressed through the analysis and control of biological, chemical, and physical hazards from raw material production, procurement and handling, to manufacturing, distribution**  | **What we mean about hygiene AND What are HACCP system** | **1st week,13/9/2023** | 1 |
| **important needs of eggs to grow in to chick, hatchery sanitizing, eggs storage and pre incubation fumigation** | **Hyeigen of incubation and hatcheries** | **2nd week,20/9/2022** | 2 |
| **Receiving eggs in a special storage at correct temperature and humidity, how disinfect the hatcheries to prevent hatchery borne diseases.** |  **How disinfect hatcheries and fumigate eggs in the hatcheries** | **3rd week27/9/2023** | 3 |
| **Importance of cleaning process, , how we disinfect poultry house and Important of bio security.** | **Hygiene of poultry house** | **4th week,04/10/2023** | 4 |
| **Wearing cloves and overall and plastic shoes, beginning to clean the equipment’s and then disinfect them, cleaning the floor , walls, selling , out door and around the house**  | **Visit to kirda rash broiler hall and layer project** | **5th week11/10/2023** | 5 |
| **Determine the scientific level of students**  | **First practice exam** | **6th week25/10/2023** | 6 |
| **Meaning of vaccination, why all vaccines in poultry against viral diseases, types & methods of vaccines** | **Vaccine and methods of vaccination** | **7th week01/11/2023** | 7 |
| **Water quality and its safety, different types of sanitizers can be used safely.** | **Water quality and sanitizers used in poultry farms** | **8th week08/11/2023** | 8 |
| **To identify the most important cases of mastitis and methods of the treatment and prevention.** | **Mastitis, clinical signs, control and treatment.** | **9th week15/11/2023** | 9 |
| **Practical controlling, restraining and handling of ruminants** | **Principles of handling** **& Restraining livestock** | **10th week22/11/2023** | 10 |
| **Definition of abattoir, components, function of parts and operation performed on there.** | **Food animal slaughter places; slaughter slabs & abattoirs – siting, layout, construction, operations & management** | **11th week29/11/2023** | 11 |
| **Determine the scientific level of students** | **Second practice exam** | **12th week06/12/2023** | 12 |
| **Dertermine the age of animals by difrrent ways like :teeth, horn and records and date of birth**  | **Methods of determine age of ruminant and horses**  | **13th week13/12/2023** | 13 |
| **Learning hoe determined the Age of horses by teeth**  | **Visit to Sami Abdulrahman park** | **14th week20/12/2023** | 14 |
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| **19. Examinations:** 1st exam. After 4 lectures 2nd exam. After 5 lectures**Q1- Numerate routs of applying killed vaccines:-6 MARKS**1-……………………2-………………………3-………………………. **Q2- Write disadvantages of live vaccine ? .(4 MARKS )**1-………………………………………………2-………………………………………………..**Q3**- **How define HACCP? (10 MARKS)****…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….****Q4- Important of aging are :(6 MARKS)****1……………………..****2……………………………****3…………………………………** **Q5**- **how you determine age of animal by their horn ?( 4 MARKS)**……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………. |
| **20. Extra notes:**Over the last few years, increased importance has been placed on rules for animal welfare, due to the convergence of several factors, Regulations: World organisation for animal health, Increased production, Intensive animal farming with more productive, but less rural animals. The condition of litter is a determining factor in animal health. It is essential to maintain high levels of hygiene in these areas, and to prevent pathogenic germs from entering by any means of contact. This prevents: infection via the umbilical cord, neo-natal, septicaemia, meningitis, arthritis, vaginitis, mastitis, dermatitis, lameness, atmospheres, laden with ammonia and moisture,specially many diseases consider zoonotic can transmet to human being like :AIV,Corona, Anthrax and haemorrhagic fever. |
| **21. Peer review پێداچوونه‌وه‌ی هاوه‌ڵ**   |