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**Department of Animal Resource**

**College of Agriculture Engineering Sciences**

**University of Salahaddin**

**Subject: project**

**Course Book – (stage 4)**

**Lecturer's name Assist. Prof. Dr Nidhal A. Mustafa**

**Academic Year: 2022-2023**

**Course Book**

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| **1. Course name** | **Autumn semester** | |
| **2. Lecturer in charge** | **Assist. Prof. Dr Nidhal Abdulgani Mustafa** | |
| **3. Department/ College** | **Animal Resource Department / Agriculture College** | |
| **4. Contact** | **E-mail nidhal.mustafa@su.edu.krd Tel: 07506926313**  **Tel: (optional)** | |
| **5. Time (in hours) per week** | **For Practical: 3** | |
| **6. Office hours** | **5 day a week** | |
| **7. Course code** | **--** | |
| **8. Teacher's academic profile** | **e.g Webpage, Blog, Moodle…**  **or few paragraphs about not less than 100 words** | |
| **9. Keywords** |  | |
| **10. Course overview:**  **Theory**  The role of this lecture to provide a good information about the hatchery and how to manage the process of hatching. Develops general skills and knowledge of the principles of efficient works in hatching such as select good quality of eggs to produce a good chicks,  The quality of the day old chicks is the foundation of poultry business. With this manual “From egg to chicken” we have tried to give the reader management factors for the production of first class day old chicks. At the same time this manual contains several hints for the flock owner and the hatchery man who may positively influence the results An increased hatchability of 1 percent in large hatcheries would mean much better return. Have a calculation done for your hatchery on “What a 1 percent better hatchability would mean to you”. You can be sure that improvements in the hatchery offer great possibilities.  ▪The importance of studying the subject ▪ Understanding of the fundamental concepts of the course ▪Principles and theories of the course ▪ A sound knowledge of the major areas of the subject ▪Sufficient knowledge and understanding to secure employment  **Practical**  Many changes have taken place in project in recent years, such as the introduction of computer monitoring and control of the machines, and automation of many day-to-day hatchery operations. Additionally, there is increasing awareness of the role of the project in disease control.  In this class we will discuss a general overview of farm process history, hatchery functions and importance, as well as in depth lectures on project building, design andhatchingoperationsmanagement ...etc. There is no text book for this class, so students will be expected to take notes during lecture. Students must pay attention in class to record their notes. Students that disrupt the class by talking during lecture will be removed from the classroom. For this class, cell phones and other electronic devices are PROHIBITED in the classroom.  Deals with many studies, showing by images of types of eggs, practical in laboratory to see all the shape and size of eggs that required to incubation and also those eggs that not required. However going to some commercial hatchery when the egg incubates with take some notes for more information and also explanation by the expert. One hour lecture, two hourslab per week.  This should not be less than 200 words | | |
| **11. Course objective:**  **Theory**  This should not be less than 100 words  Students will be introduce to the basic principles of project and be able to identify each system of hatching. Identify and the function of each room in the hatchery before put the eggs inside the farm. Explain the poultry industry. Principles of poultry breeding, nutrition, brooding, and rearing. Housing and equipment. Inform student about incubation and hatchery management, control of diseases, marketing. Students will be learn what are the factors that affect on the rate of hatching percentage during rearing stock and incubation time.  **Practical**  The objectives of this course is to study the parts of project and how it managed practically and how put the eggs in one point when are in the breeder farms and transport to the hatchery and interred in one direction and cross all parts and the changes that occur in each part then put the eggs in to the hatchery and embryonic developments during incubations and hatcheries, after that hatching day and some services in one day old chicks. Incubation requirement; incubators working, care. Hatchery layout and equipment's. | | |
| **12. Student's obligation**  In this section the lecturer shall write the role of students and their obligations throughout the academic year, for example the attendance and completion of all tests, | | |
| **13. Forms of teaching**  لێره‌ مامۆستا ڕێگه‌ی وانه‌‌ ووتنه‌وه‌ ده‌نووسێت، بۆ نموونه‌:‌ داتاشۆ و پاوه‌رپۆینت، ‌سه‌ر ته‌خته‌ڕه‌ش، ته‌خته‌ی سپی، سمارتبۆردیان‌ مه‌لزه‌مه‌... هتد  I use the projector to display my objectives by power point, sometimes we need to write some information on white board to clarify it. We will give all our objectives on the word paper to our students.  Power point  White board  Images  Video | | |
| **14. Assessment scheme**  Breakdown of overall assessment and examination  لێره‌ مامۆستا جۆری هه‌ڵسه‌نگاندن (تاقیکردنه‌وه‌کان یان ئه‌زموونه‌کان) ده‌نووسێت بۆ نموونه‌ تاقیکردنه‌وه‌ی مانگانه‌، کویزه‌کان، بیرکردنه‌وه‌ی ڕه‌خنه‌گرانه (پریزه‌نته‌یشن)، ڕاپۆرت نووسین، ووتار نووسین‌ یان ئاماده‌نه‌بوونی خوێندکار له‌ پۆلدا...هتد. ئامانه‌ چه‌ند نمره‌ی له‌سه‌رده‌بێت و مامۆستا چۆن نمره‌کان دابه‌شده‌کات؟  Final Mark 50% poultry project + 50% Animal project = 100%‌ | | |
| **15. Student learning outcome:**  پڕکردنه‌وه‌ی ئه‌م خانه‌یه‌ زۆر گرنگه‌، مامۆستا ده‌رئه‌نجامه‌کانی فێربوون ده‌نووسێت. بۆ نموونه‌:ڕوونی ئامانجه‌ سه‌ره‌کیه‌کانی کۆرسه‌که‌ (بابه‌ته‌که‌) بۆ خوێندکار‌  گونجاندنی ناوه‌ڕۆکی کۆرسه‌که‌ به‌ پێویستی ده‌ره‌وه‌ و بازاڕی کار  قوتابی چی نوێ فێرده‌بێت له‌ ڕێگه‌ی پێدانی ئه‌م کۆرسه‌وه‌؟  This should not be less than 100 words  Students will be introduce to the basic principles of hatchery and be able to identify each system of hatching. Identify and the function of each room in the hatchery before put the eggs inside the hatching machine. Explain the poultry industry. Principles of poultry breeding, nutrition, brooding, and rearing. Housing and equipment. Inform student about incubation and hatchery management, control of diseases, marketing. Students will be learn what are the factors that affect on the rate of hatching percentage during rearing stock and incubation time.   1. Technical Thinking: the student will demonstrate competence of technical subject matter in poultry sciences. 2. CommunicationSkills: The student will demonstrate effective oral and written communication skills. 3. LeadershipSkills: The student will exhibit leadership and other interpersonal skills needed for career placement and advancement. 4. Problem Solving Skills: The student will exhibit problem solving skills based on quantitative and analytical reasoning. 5. Critical Skills: The student will demonstrate knowledge of poultry production facilities. | | |
| **16. Course Reading List and References‌:**  ▪Key references:  ▪Useful references:  ▪Magazines and review (internet):   * 1. Journal of animal science.   2. Animal journal.   3. National Agriculture Library.   4. Agricultural Research Service[www.ars.usda.gov](http://www.ars.usda.gov)   5. Agricultural Research Service<http://www.science.gov/search.html>   6. Agriculture Network Information Center<http://www.central.agnic.org/>   7. Agricultural researches [http://images.google.com/images?q=+a...&start=20&sa=N](http://images.google.com/images?q=+agricultural+++magazine+&svnum=10&hl=en&lr=&start=20&sa=N) * Veterinary Medicine and Avian Disease Investigation Laboratory | | |
| **17. The Topics:** | | **Lecturer's name** |
| In this section the lecturer shall write titles of all topics he/she is going to give during the term. This also includes a brief description of the objectives of each topic, date and time of the lecture  Each term should include not less than 16 weeks  The titles of the objects will be the following:  Visit local hatchery in practical lecturer | | Lecturer's name  Dr Nidhal A. Mustafa  ex:(3 hrs)  ex:26/9/2022 |
| **18. Practical Topics (If there is any)** | |  |
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| **19. Examinations:**  No Exam | | |
| **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 reviewپێداچوونه‌وه‌ی 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.‌‌ | | |