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**Department of Animal ARESOURCE**

**College of Agriculture Engineering Science**

**University of Salahaddin-Erbil**

**Subject: Dairy Cattle Production / Practical**

**Course Book – YEAR4**

**Lecturer's Name: Lec. Shireen Ihsan Izzadeen**

**Academic Year:2022 – 2023**

**Course Book**

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| **1. Course name** | **Dairy Cattle Production**  |
| **2. Lecturer in charge** | **Asst. Lec. Shireen Ihsan Izzadeen** |
| **3. Department/ College** | **Animal Resources/ Agriculture Engineering Science** |
| **4. Contact** | **Mail:** **shireen.izzadeen@su.edu.krd****Tel.0750** |
| **5. Time (in hours) per week**  | **Practical: 3**  |
| **6. Office hours** | **sunday, Wednesday and Thursday**  |
| **7. Course code** |  |
| **8. Teacher's academic profile**  | **Since 2019, I have been working as a teaching staff at Salahaddin University - Erbil** |
| **9. Keywords** |  |
| **10. Course overview:** The objective for good dairy farming practice is that safe, quality milk should be produced from healthy animals using management practices that are sustainable from an animal welfare, social, economic and environmental perspective.To achieve this objective, student and dairy farmers should apply good practice in the following areas:• animal health• milking hygiene• nutrition (feed and water)• animal welfare• environment• socio-economic management.For each of these categories this lecture lists good dairy farming practices, and suggests measures that can be implemented to achieve the desired outcome. |
| **11. Course objective:**1. Identify the types of barns of dairy cattle production.2. Learning field operations by practicing in the fields of animal.3. Supervise the flock feeding.4. Preparation for seasonal, daily Field Operations and once Time Farm Operations through Animals Age5. Follow-up care of the newborn calf.6. Preparation of the records. |
| **12. Student's obligation** Students should attend the lectures and their obligations throughout the academic semester will be, the attendance and completion of all tests, exams and reports. |
| **13. Forms of teaching**The forms of teaching include data show, power point also white board for explaining the subjects which needs more explanation. |
| **14. Assessment scheme****‌** Degree of daily exam (quiz) and another activity = 5 % Monthly exam = 35 % |
| **15. Student learning outcome:**Student learn of this program is to educate students in techniques of dairy production and management for careers with dairy farms and associated dairy businesses and industries. Dairy cattle production and management positions are available in production management, service, sales, and quality control. |
| **16. Course Reading List and References‌:****1**- [Business Management For Tropical Dairy Farmers. Dr John Moran (2009).](https://www.publish.csiro.au/book/6054)**2**- Tropical Dairy Farming Feeding Management for Small Holder Dairy Farmers in The Humid Tropics (2005).**3**- Producing of Dairy Cattle (1986). |
| **17. The Topics:** | **Lecturer's name** |
| 1. historical overview and the benefits and disadvantages of dairy cattle breeding and the factors that lead to the success of a project to raise dairy cattle
2. the production of milk and perseverance and modified milk production

3-4-Factors affecting milk production.5-mammary gland and the external appearance of the udder and the installation of the udder in cows and blood supply of the mammary gland and it arterial road to the udder.6-7-intravenous routes emerging from the udder and the lymphatic system and the autonomic nervous system8-9- The importance of hormones in regulating milk yield and growth of udderAnd changes that occur to the udder during milk production seasons.10- the composition of milk and secretion it and the installation of colostrum and obstruction of milk secretion.11- the food needs of dairy cattle and balanced diets.12- house dairy cattle13- 14- some behavioral modes in cows.15-16- livestock health | **Asst. Prof. Dr. Majed Waly**  & **Dr. Joshan Majeed**  |
| **18. Practical Topics** 1. Original Dairy cattle's 2. Iraqi cow’s breeds3. Dairy cattle barn housing 4. Keeping records5. Daily Field Operations6. Once Time Farm Operations through Animals Age7. Rearing Calf and Care8. Milking and Type of Milking 9. Arbitration of Dairy Cattle10. Buffalo management | Asst. Lec. Shireen Ihsan  |
| **19. Examinations:**Q1*.* Complete the following sentences with missing words: Q2/ Indicate whether each statement is true (T) or false (F). In order for a statement to be true, it must be completely true. Then correct the false statements.Q 3/ Define the following terms.Q 4/ Give the reason(s) for the following sentences.Q 5/ Count the following |
| **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.‌‌  |