

**Department of Animal Resources**

**College of Agricultural Engineering Sciences**

**Salahaddin University - Erbil**

**Subject: Dairy Cattle**

**Course Book (Year 4)**

**Lecturer's name: Joshan Majeed Ahmed (PhD)**

**Academic Year: 2023/2024**

**Course Book**

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| **1. Course name** | **Dairy Cattle Production** |
| **2. Lecturer in charge** | **Asst. Prof. Dr. Joshan Majeed Ahmed**  |
| **3. Department/ College** | **Animal Resources/ Agriculture Engineering Science** |
| **4. Contact** | **Mail:** joshan.ahmed@su.edu.krd**Tel.** 00964 07504673272 |
| **5. Time (in hours) per week** | **2** |
| **6. Office hours** | **Sunday to Thursday** |
| **7. Course code** |  |
| **8. Teacher's academic profile** | My name is Joshan Majeed Ahmed, I have a PhD degree in animal husbandry at the Faculty of Agriculture, Salahuddin University. Specialist in the dairy cattle production I worked as a proph assistant in the Animal Production Department of the Faculty of Agriculture. I worked in many positions including the director of the animal department in the Faculty of Agriculture. Administrative and scientific aspects related to the field of specialist. |
| **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 Age
5. Follow-up care of the newborn calf.
6. Preparation of the records.
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| **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. |

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| **13. Forms of teaching**The forms of teaching include data show, power point also white boardfor 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 inproduction 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).
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| **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.1. house dairy cattle
2. 14- some behavioral modes in cows. 15-16- livestock health
 | **Dr. Joshan Majeed Ahmed** |
| **18. Practical Topics** | Asst. Lec. Shireen Ihsan |

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| 1. Original Dairy cattle's
2. Iraqi cow’s breeds
3. Dairy cattle barn housing
4. Keeping records
5. Daily Field Operations
6. Once Time Farm Operations through Animals Age
7. Rearing Calf and Care
8. Milking and Type of Milking
9. Arbitration of Dairy Cattle
10. Buffalo management
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| **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. |
| **پێداچوونهوهی هاوهڵ review Peer 21.**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 جهندووشهیهک 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. |