

بسم الله الرحمن الرحيم

Republic of Iraq

The Ministry of Higher
Education

& Scientific Research



University: Diyala

College: Agriculture

Department: Animal Production

Stage: Forth

Lecturer name: Mohammed A. Shwayel

Academic Status: Professor

Qualification: Ph.D.

Place of work: College of Agriculture

Flow up of implementation celli pass play

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|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------|---------|------------|
| Course Instructor | Mohammed Ahmed Shwayel | | | | |
| E-mail | mohammedshwayel@uodiyala.edu.iq | | | | |
| Title | Dairy Cattle Production | | | | |
| Course Coordinator | Second course -Spring | | | | |
| Course Objective | Providing the student with information about dairy cows by studying the characteristics of dairy cow breeds, management of cows in the station, nutrition, breeding, milk production, and the impact of administrative and .environmental factors on them | | | | |
| Course Description | The article deals with the study of the basic characteristics of dairy cow breeds and gives other information such as nutrition, growth, breeding, reproduction, environmental factors, milk production with influencing factors, the .physiology of mammary gland secretion, and hormonal control of dairy cows | | | | |
| Textbook | Dairy cattle production .2010.Natic hammed Alkads and Geal Fctor Eelia. CALVES HUSBANDRY TECHNIQUES .2015. Natic H. Saleh Alkudsi and Mohammed A. Shwayel. | | | | |
| External References | Al-Qudsi, Natic Hamid and Muhammad Ahmad Shwayel and Nadia Wahbi Shaker (2017). Management of dairy cows in Tropical regions. A translated book by John Moran 2010. Baghdad University Press. Al-Hakim, Murtada Kamal, Jalal Elia Al-Qass and Sabah Abdul-Ridha Al-Ubaidi. 1982. Biology of milk production. (Translation). Directorate of Dar Al-Kutub for Printing and Publishing, University of Mosul - College of Agriculture - University of Baghdad - Iraq. | | | | |
| Course Assessments | Term Tests | Practical | Quizzes | Project | Final Exam |
| | %20 | %15 | %5 | - | %60 |

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| Notes | Practical Subject | Theoretical Subject | date | week |
|-------|---------------------------------------|-------------------------------------------------|------|------|
| | Dairy cow breeds | Important of Dairy Cattle | | 1 |
| | Field Operations | Factors due to decrease milk production in Iraq | | 2 |
| | Field Operations | Evaluation of dairy cows | | 3 |
| | Lactation of Young Calves | Reproductive in Dairy Cattle | | 4 |
| | Housing and Records | Care Heifer calves | | 5 |
| | Field Operations | Management Dairy Cattle | | 6 |
| | Field Operations | Milk secretion physiology | | 7 |
| | Exam 1 | First Test | | 8 |
| | Milking and Types of Milking Machines | Milk Information | | 9 |
| | Milking and Types of Milking Machines | Hormone control for milk production | | 10 |
| | Nutrition in Dairy Cows | Nutrition of dairy cow | | 11 |
| | Rate Formation in Dairy Cows | Breeding of dairy cow | | 12 |
| | Management of Cows in the Field | Environment Factors and effects on Dairy Cow | | 13 |
| | Diseases in Dairy Cows | Factors Effecting milk production | | 14 |
| | Exam 2 | Second Exanimation | | 15 |

PhD.Prof. Mohammed Ahmed Shwayel
15/1/2025

Dean Signature:
Prof. Dr. Raaed Ibrahim Khalil
15/1/2025