Republic of Iraq

The Ministry of Higher Education & Scientific Research بسم الله الرحمن الرحيم



University: Diyala College: Agriculture

Department: Animal Production

Stage: Third

Lecturer name: Salah M. Abed

Qualification: Ph. D.

Place of work: College. Of Agriculture

Flow up of implementation celli pass play

| Course Instructor | Salah Mahdi Abed | | | | |
|-----------------------|---|------------|---------|---------|-------|
| E-mail | salahabed@uodiyala.edu.iq | | | | |
| Title | Animal nutrition | | | | |
| Course Coordinator | Second semester/ 2024-2025 | | | | |
| Course Objective | Give an idea of the importance of animal nutrition. | | | | |
| | Idea of the mechanics of the digestive system of ruminants. The student learns: digestion, metabolism and absorption in ruminants. Knowledge of the nutrients involved in the composition of food and how to benefit from them. | | | | |
| Course | The importance of Nutrition Science, Study the digestive system of | | | | |
| Description | ruminants, the required nutrients, how to digest, absorption and metabolism them, the most important nutritional deficiency diseases, and sustainable development in animal nutrition. | | | | |
| Textbook | Animal nutrition (McDonald-Edwards-krenhal) translated by (Saad Abdul Hussein Naji and Talal Youssef Boutros)-Ministry of higher education and scientific research. | | | | |
| Course | Term | Laboratory | Quizzes | Project | Final |
| Assessments | Tests | | | | Exam |
| | 20% | 15% | 5% | | 60% |
| General Notes | | | | | |

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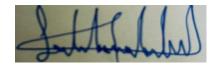
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Flow up of implementation celli pass play

| week | Date | Topics Covered | Practical Part | | | |
|------|--|---|----------------------------------|--|--|--|
| 1 | 1st week | Nutrition Sci., general rules in nutrition | How to work in the laboratory | | | |
| 2 | 2 nd week | Ingredients of the nutrient - water | Laboratory devices Important | | | |
| 3 | 3 rd week Ingredients of nutrient - Carbohydrates | | Laboratory tests | | | |
| 4 | 4 th week | Ingredients of nutrient - protein | Partial drying of the Diet | | | |
| 5 | 5 th week | Ingredients of nutrient - Lipids | Total drying of the Diet | | | |
| 6 | Semester 1 st exam | | | | | |
| 7 | 7 th week | Ingredients of nutrient - Vitamins | Ash percentage measurement | | | |
| 8 | 8th week | Ingredients of nutrient -Minerals | Ash percentage measurement | | | |
| 9 | 9 th week | Anatomy and functions of the gastrointestinal tract | Fat percentage measurement | | | |
| 10 | 10 th week | Digestion, absorption and Carbohydrate metabolism | Fat percentage measurement | | | |
| 11 | 11 th week | Digestion, absorption and protein metabolism | Protein percentage measurement | | | |
| 12 | 12 th week | Digestion, absorption and Lipid metabolism | Protein percentage measurement | | | |
| 13 | Semester 2 nd exam | | | | | |
| 14 | 14 th week | Nutritional deficiency diseases | Fiber percentage measurement | | | |
| 15 | 15 th week | Sustainable production of animal diet | Sustainable animal diet industry | | | |



Ass. Prof. Dr. Salah Mahdi abed Instructor Signature: 15/1/2025 J3 L

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