

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	<ul style="list-style-type: none">• 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 Description	The importance of Nutrition Science, Study the digestive system of 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 Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	20%	15%	5%		60%
General Notes					

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week	Date	Topics Covered	Practical Part
1	1 st 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	8 th 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

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