



Jordan University of Science and Technology
Faculty of Agriculture
Animal Production Department

AP232 Feeds And Feeding - JNQF Level: 7

Summer Semester 2023-2024

Course Catalog

3 Credit Hours. Nutritive and physical characteristics of various feed stuffs. Formulation of balanced rations for farm animals and nutritive requirements during various stages of life. (Prerequisite: AP 206)

Teaching Method: Blended

Text Book

Title	Livestock Feeds and Feeding
Author(s)	Kellems & Church
Edition	5th Edition
Short Name	Livestock Feeds and Feeding
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Applied Animal Nutrition	Applied Animal Nutritionv	Peter R. Cheeke	3rd Edition	

Instructor

Name	Prof. Belal Obeidat
Office Location	M1L3
Office Hours	Sun : 08:30 - 10:30 Mon : 13:00 - 15:00 Tue : 08:30 - 10:30 Wed : 13:00 - 15:00
Email	bobeidat@just.edu.jo

Class Schedule & Room

Section 1:

Lecture Time: Mon, Wed : 11:30 - 13:00

Room: C3017

Prerequisites

Line Number	Course Name	Prerequisite Type
612060	AP206 Principles Of Animal Science	Prerequisite / Study

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction and The animal and its food	
Week 2	The gastrointestinal tract and nutrient utilization (Anatomy and Function and comparative of GIT)	
Weeks 3, 4, 5, 6, 7	Nutrients (Function, Requirements, Sources, and Digestion and metabolism)	
Week 8	Feeding Standard and Feedstuffs (Introduction and Chemical Analysis)	
Weeks 9, 10	High-energy feedstuffs (Definition, Cereal grains, relative values of cereal grains, and Byproduct feeds)	
Week 11	High protein feeds (Biological value of protein, Plant sources, Animal sources, and Non-protein nitrogen)	
Week 12	Roughages (Definition, Chemical composition, Harvesting, storage, and processing)	
Week 13	Mineral and Vitamin Supplements and Feed Processing (Grain processing and Forage processing)	
Week 14	Dairy Cattle Nutrition	
Week 15	Sheep Nutrition	
Week 16	Poultry Nutrition	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understand the anatomy and function of gastrointestinal tract of ruminants [1SLO 1] [1L7K1, 1L7S1]	10%	
1- Understand the purpose of feeding different ingredients 2- Become familiar with nutrients provided from different feed ingredients [1SLO 2] [1L7S1, 1L7S2]	40%	
1- Understand the process of feed manufacturing 2- Understand purpose of using supplements and feed additives [1SLO 3] [1L7K1, 1L7S1, 1L7S3, 1L7C3]	40%	
Understand the different feeding requirements based on production purpose [1SLO 4] [1L7K1, 1L7S1]	10%	

Relationship to Program Student Outcomes (Out of 100%)			
SLO 1	SLO 2	SLO 3	SLO 4
10	40	40	10

Relationship to NQF Outcomes (Out of 100%)				
L7K1	L7S1	L7S2	L7S3	L7C3
20	40	20	10	10

Evaluation	
Assessment Tool	Weight
First Exam	30%
Final Exam	40%
Second Exam	30%

Policy	
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the department chair. Written exams will be a combination of True and False, Multiple Choice, fill in the blank, problems, and short essay questions. No makeup exams unless the student is excused
Cheating	Prohibited; and in case of cheating the student will be subject to punishment according to the university regulations
Participation	Participation is highly encouraged

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