



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

AP304 Animal Nutrition Laboratory

First Semester 2022-2023

Course Catalog

1 Credit Hours. Chemical analysis for feedstuffs to determine content of moisture, crude protein, fat, carbohydrates, ash, fiber, energy, digestibility, and ration formulation for farm animals.

Instructor

| | |
|-----------------|----------------------------|
| Name | Prof. Belal Obeidat |
| Office Location | M1L3 |
| Office Hours | |
| Email | bobeidat@just.edu.jo |

Class Schedule & Room

Section 1:
Lecture Time: Mon : 14:30 - 17:30
Room: LAB

Teaching Assistant

Miss Nawzat Al-Smadi()

Prerequisites

| Line Number | Course Name | Prerequisite Type |
|-------------|-------------------------|----------------------|
| 612320 | AP232 Feeds And Feeding | Prerequisite / Study |

Tentative List of Topics Covered

| Weeks | Topic | References |
|--------|---|------------|
| Week 1 | Laboratory Safety and Sampling Techniques | |
| Week 1 | Feed Identification | |

| | | |
|-------------|--|--|
| Week 2 | Proximate Analysis (Dry matter and Ash) | |
| Week 3 | Proximate Analysis (Crude Fat or Ether Extract) | |
| Week 4 | Proximate Analysis (Crude Protein) | |
| Week 5 | Proximate Analysis (Crude Fiber and Nitrogen free Extract) | |
| Week 6 | Detergent fiber system (NDF, ADF, ADL) | |
| Weeks 7, 8 | Energy | |
| Weeks 9, 10 | Quality Control measures | |

| Mapping of Course Outcomes to Program Student Outcomes | Course Outcome Weight (Out of 100%) | Assessment method |
|--|-------------------------------------|-------------------|
| 1. Be able to identify feed ingredients [1SLO 1] | 20% | |
| 2. Develop feed sampling skills [1SLO 1, 1SLO 2] | 20% | |
| 3. Understand the laws and regulation regarding animal feeding and feed labelling [1SLO 1, 1SLO 3] | 15% | |
| 4. Understand the chemical composition of animal feeds [1SLO 2] | 15% | |
| 5. Able to run approximate analysis of feed ingredients [1SLO 1, 1SLO 2] | 20% | |
| 6. Able to run detergent fiber system (Van Soest system) [1SLO 1, 1SLO 2] | 10% | |

| Relationship to Program Student Outcomes (Out of 100%) | | | |
|--|-------|-------|-------|
| SLO 1 | SLO 2 | SLO 3 | SLO 4 |
| 52.5 | 40 | 7.5 | |

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