



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

AP431 Poultry Farm Management And Technology

Second Semester 2022-2023

**Course Catalog**

3 Credit Hours. Application of scientific knowledge acquired related to physiology and nutrition into the management of modern poultry farms and research including feeding, housing, ventilation, disease, heat stress, and lighting programs. Prerequisite AP313 and AP315

**Text Book**

<b>Title</b>	Principles of Poultry Science
<b>Author(s)</b>	S. P. Rose
<b>Edition</b>	1st Edition
<b>Short Name</b>	Ref-1
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref-2	Reproduction in Poultry	R. J. Etches	1st Edition	
Ref-3	Poultry Production in Hot Climates	N. J. Daghir	1st Edition	

**Instructor**

Name	<b>Prof. Kamel Mahmoud</b>
Office Location	M1L3
Office Hours	
Email	kmahmoud@just.edu.jo

**Class Schedule & Room**

Section 1:

Lecture Time: Mon, Wed : 10:00 - 11:30

Room: C5021

**Prerequisites**

Line Number	Course Name	Prerequisite Type
613151	AP315 Table And Hatchery Egg Production	Prerequisite / Study
613132	AP313 Broiler Production	Prerequisite / Study

**Tentative List of Topics Covered**

Weeks	Topic	References
Weeks 1, 2	Introduction: Meat Production Lines, Egg Production Lines, and Feather Sexing Introduction, Poultry Industry In Jordan	From <b>Ref-1</b>
Weeks 3, 4	Housing and Equipment - Open system - Closed system	From <b>Ref-1</b> , From <b>Ref-3</b>
Weeks 5, 6	Broiler Production Management Highlights	From <b>Ref-1</b> , From <b>Ref-2</b>
Weeks 7, 8	Layer Production Management Highlights	From <b>Ref-1</b> , From <b>Ref-2</b>
Weeks 9, 10	Layer Production Management Highlights	From <b>Ref-1</b> , From <b>Ref-2</b> , From <b>Ref-3</b>
Weeks 10, 11, 12	Ventilation Systems - Natural Ventilation - Mechanical Ventilation	From <b>Ref-1</b>
Weeks 14, 15	Incubation and hatching Management Highlights	From <b>Ref-2</b>
Week 16	Biosecurity and Disease Prevention	From <b>Ref-1</b>

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Able to operate in conventional and modern fully controlled poultry houses [5SLO 1, 10SLO 3]	15%	First Hour Exam, Final Examination
Know how to manage poultry flock under heat stress [15SLO 2, 5SLO 3]	20%	First Hour Exam, Quizzes, Final Examination, Second Hour Exam

Know how to construct a lighting program for poultry flocks [5SLO 2, 10SLO 3, 5SLO 4]	20%	Quizzes, Final Examination, Second Hour Exam
Able to tackle daily managerial or nutritional problems facing poultry flock [5SLO 2, 10SLO 4]	15%	First Hour Exam, Final Examination, Second Hour Exam
Know how to manage table and hatchery egg from farm to incubator and hatchery [5SLO 3, 5SLO 4]	10%	Quizzes, Final Examination
Learn the principle of poultry house natural and mechanical ventilation and to be familiar with controlled poultry houses parts and to operate mechanical ventilation system [10SLO 3, 10SLO 4]	20%	First Hour Exam, Quizzes, Final Examination, Second Hour Exam

Relationship to Program Student Outcomes (Out of 100%)			
SLO 1	SLO 2	SLO 3	SLO 4
5	25	40	30

Evaluation	
Assessment Tool	Weight
First Hour Exam	25%
Quizzes	10%
Final Examination	40%
Second Hour Exam	25%

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