

Ministry of Higher Education and Scientific research



**Department of Animal Resources
College of Agriculture**

University of Salahaddin- Erbil

Subject: POULTRY NUTRITION (THEORETICAL)

Course Book – (Stage 4)

Lecturer: Asst. Prof. Dr. Nazim Rasul Abdulla

Academic Year: 2022/2023

Course Book

1. Course name	POULTRY NUTRITION
2. Lecturer in charge	
3. Department/ College	Animal Resources Department / Agriculture College
4. Contact	Nazimrasul@yahoo.com Nazim.abdulla@su.edu.krd 07504537027
5. Time (in hours) per week	Theoretical : 2
6. Office hours	5 days a week
7. Course code	
8. Teacher's academic profile	I got BSc. at 1999-2003 and at 2003 I employed in college of agriculture/ Salahaddin University. Then I got the master at 2006 in Erbil- Iraq and the PhD at 2016 in Malaysia.
9. Keywords	
10. Course overview:	<p>The poultry industry has a very important place in the human food, because it has provided a rich source of protein like eggs and white meat as a staple, cheap and safe food for human. The basis of the production process in poultry production is the nutrition, because it represents more than 60% of the expenses of the production process which go to provide feeds for poultry flocks therefore reduce this expense by using the modern scientific preparation methods of these diets lead to reduced expenses nutrition without any nutritional problems to the bird and successfulness of poultry projects.</p>
11. Course objective:	<p>Goals of the theoretical Section of Poultry Nutrition are to give students attention or focus on importance of feed nutrients for poultry performance, reproductive and health. And to explain the fate and the role of each nutrient in the metabolism in birds body. Also, elucidation of nutritional disorders resulted by deficiency or exceeding nutrient intake.</p>
12. Student's obligation	<p>The role of students in the class should attend to the class weekly and I will put some points on it, every week I will do quiz for them and students participate in the class is very important.</p>
13. Forms of teaching	<p>I use the projector to display my objectives by power point, sometimes we need to write some information on the white board to clarify it. I will give all my objectives on the word</p>

paper to my students.

14. Assessment scheme

First Exam after six lectures

Mark Distribution:

Monthly Exam, 50%

Theoretical 15% (Quiz 5% and Exam 10%)

+ practical 35%

Final Exam, 50% (Theoretical)

15. Student learning outcome:

After finishing these courses the students will be able to search by specific key words related to poultry nutrition sector how to find scientific resources which explain the modern principles and developments in poultry nutrition, also they will learn about the newest technical additives and strategies used to improve poultry feeding.

16. Course Reading List and References:

Books:

- Rose. S.P. 1997. Principles of Poultry Science. CAP international/ Wallingford /Oxon OX10 8DE/ UK. 135p
- Leeson, S. and J. D. Summers. 2008. Commercial poultry nutrition, 3rd edition. Nottingham University Press, Manor Farm, Church Lane, Thrumpton, Nottingham, NG11 0AX, England

Magazines and review (internet):

- World Poultry
- All About Feed
- <http://www.thepoultrysite.com>

17. The Topics:

Lecturer's name

Lecturer's name

18. Theoretical Topics (If there is any)

First week

ex: (3 hrs)

In this topic students will learn the

Introduction to Poultry Nutrition

- What is Nutrition?
- What is poultry nutrition?
- Objective of poultry nutrition

<ul style="list-style-type: none"> • The history of poultry nutrition development 	
<u>Second week</u>	
<p>In this topic students will learn the</p> <ul style="list-style-type: none"> • Differences in metabolic reactions in the body between poultry and other domesticated animals • Poultry feed classification • Basics of feed formulation 	ex: (2 hrs)
<u>Third week</u>	
<p>In this topic students will learn the:</p> <p>Classification of Carbohydrates, Fats, Proteins, Minerals, vitamins and Water and biological functions</p>	ex: (2 hrs)
<u>Fourth week</u>	
<p><i>The energy</i></p> <p>This topic is aimed to =introducing the fundamentals of the Energy, the role of energy in poultry nutrition, effects and efficiency ...</p>	ex: (2 hrs)
<u>Fifth week</u>	
<p>This topic is aimed to introducing the fundamentals of the Proteins, the role of protein in poultry nutrition, effects and efficiency</p>	ex: (2 hrs)
<u>Sixth week</u>	
<p>This topic is aimed at introducing the fundamentals of the minerals, the role of minerals in poultry nutrition, effects and efficiency</p>	ex: (2 hrs)
<u>Seventh week</u>	
<p>This topic is aimed at introducing the fundamentals of the vitamins, the role of vitamins in poultry nutrition, effects and efficiency</p>	ex: (2 hrs)
<u>Eighth week</u>	
<p>This topic is aimed at introducing the fundamentals of the water, the role of water in poultry nutrition, effects and efficiency</p>	ex: (2 hrs)
<u>Ninth Week</u>	
<p><i>Turkey nutrition</i></p>	ex: (2 hrs)
<p>This topic is aimed learning the principle of turkey nutrition.</p>	

<p><u>Tenth week</u></p> <p>Water fowl nutrition</p> <p>This topic is aimed learning the principle of water fowl nutrition.</p> <p><u>Eleventh Week</u></p> <p>Relations between nutrients</p> <p>This topic is aimed to introducing the fundamentals of the introduction between nutrients and the synergism and antagonism phenomenon.</p> <p><u>Twelfth Week</u></p> <p>Feed additives</p> <p>This topic is aimed at introducing the fundamentals of the nutritive and non-nutritive additives in poultry nutrition and the classification of additives.</p> <p><u>Thirteenth week</u></p> <p>Quality control of the feed</p> <p>This topic is aimed at introducing the fundamentals of the legislations and conditions for maintain the feed manufactured from factories.</p> <p><u>Fourteenth week</u></p> <p>This topic is aimed at introducing the fundamentals of factors influence on nutrients requirements (management, such as debeaking, separated feeding, type of feeders.....</p> <p><u>Fifteenth week</u></p> <p>This topic is aimed at introducing the fundamentals of the effect of feeding on poultry products and recent advance in poultry nutrition (organic feeding)</p>	<p>ex: (2 hrs)</p> <p>ex: (2 hrs)</p> <p>ex: (2 hrs)</p> <p>ex: (2 hrs)</p> <p>ex: (2 hrs)</p> <p>ex: (2 hrs)</p>
<p>19. Examinations:</p> <p>The first exam for student at the end of the six week and the second exam at the end of the fifteenth week.</p> <p>In regard to this subject the type of exam will be as follow:</p> <ol style="list-style-type: none"> 1. Explain how or what are the reasons for or explain...?, Examples: 	

- What is the reason of the

Typical answer:

- Define? Explain in detail what are the factors which affect the

2. **True or false type of exams:** In this type of exam a short sentence about a specific subject will be provided, and then students will comment on the trueness or falseness of this particular sentence.

Example: Put letter F (false) or letter T (true) in front of the following:

3. **Multiple choice:** In this type of exam there will be a number of phrases next or below a statement, students will match the correct phrase.

Example:

1-

2-

20. Extra notes:

Here the lecturer shall write any note or comment that is not covered in this template and he/she wishes to enrich the course book with his/her valuable remarks.

21. Peer review

پیداچونہوہی ھاوہل

This course book has to be reviewed and signed by a peer. The peer approves the contents of your course book by writing few sentences in this section.

(A peer is person who has enough knowledge about the subject you are teaching, he/she has to be a professor, assistant professor, a lecturer or an expert in the field of your subject).

ئەم کۆرسبووکە دەبیت لەلایەن ھاوئێکی ئەکادیمیەو سەر بکریت و ناوەرۆکی بابەتەکانی کۆرسەکە پەسەند بکات و جەند ووشەیک بنوسیت لەسەر شیاوی ناوەرۆکی کۆرسەکە و واژووی لەسەر بکات.
ھاوئێ ئەو کەسەیکە زانیاری ھەبیت لەسەر کۆرسەکە و دەبیت پلە زانستی لە مامۆستا کەمتر نەبیت.