# **Course Description of the Poultry Bird Nutrition**

1. Course Name

Poultry Bird Nutrition

2. Course Code

POBN428

3. Term/Year

First Semester Autumn 2023-2024

4. Description Preparation Date:

1-9-2023

5. A. Available Attendance Forms

In-Person

6. Number of Credit Hours (Total of Units)

2 theoretical + 3 practical / 3.5 units

7. Course administrator's name (mention all, if more than one name)

Dr. Khalid Hadi Mustafa

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8. Course Objectives

### theoretical

- 1- Enabling the student to learn the basic components of the feed material.
- 2-The student should know the most important sources of fodder.
- 3- Teaching the student the correct scientific foundations for forming relationships.
- 4-Enabling the student to know the relationship between nutritional needs of the bird and its productive performance.

### practical

- 1- Teaching the student the practical aspect of the scientific subject
- 2-Applying the practical aspect so that it can benefit in the labor market

# 9. TEACHING AND LEARNING STRATEGIES

## theoretical

- 1- Interactive lecture.
- 2-Explanation and clarification.
- 3. Brainstorm:

Brainstorming Debating and discussing

#### practical

- 1- Practical applications in poultry fields.
- 2- Scientific visits to feed factories.
- 3-Explanation and clarification.

Brainstorming Debating and discussing Reporting.

# 10. Course Structure

Week	Hours	Required Learning	Unit or subject	Learning	Evaluation
		Outcomes	Name	method	Method
First	2 Theoretical	theoretical	theoretical	Theoretical:	- Tests.
		a1: The student learns about	Energy - Energy	Visual and	Assignment
		energy - energy sources –	Sources -	auditory	Discussions
		carbohydrates	Carbohydrates	methods	
				Explanation	
				and dialogue	
				style	
	3Practical	Practical:	Practical:		
		b6: Explains the primary feed	primary feed	Practical:	
		materials	materials	Assignment	
				and report	
Second	2 Theoretical	Theoretical:	Theoretical:	Theoretical:	- Tests.

		a2: The student learns about lipids and fats - Fat division - Benefits and harms of fats	Lipids and fats - breakdown of fats - benefits and harms of fats	Visual and auditory methods Explanation and dialogue style	Assignment Discussions
	3Practical	Practical: b7: The student is familiar with the sources of proteins, fats, and vitamins	Practical: Sources of proteins, fats and vitamins	Practical: Assignment and report	
Third	2 Theoretical	Theoretical: a3: The student understands energy measurements - the relationship between energy and food composition	Theoretical: Measurements of energy - relationship between energy and food composition	Theoretical: Visual and auditory methods Explanation and dialogue style	- Tests. Assignment Discussions
	3Practical	Practical: b8: The student discovers feed concentrates and pre-prepared mixtures	Practical: feed concentrates and pre-prepared mixtures	Practical: Assignment and report	
Fourth	2 Theoretical	Theoretical: a4: The student learns about food rationing - the symptoms of energy deficiency and excess	Theoretical: food rationing - the symptoms of energy deficiency and excess	Theoretical: Visual and auditory methods Explanation and dialogue style	- Tests. Assignment Discussions
	3Practical	Practical: b9: The student is familiar with preparing protein concentrates	Practical: preparing protein concentrates	Practical: Assignment and report	
Fifth	2 Theoretical	Theoretical: b1: The student is familiar with proteins - types of proteins - the importance of proteins  Practical:	Theoretical: proteins - types of proteins - the importance of proteins	Theoretical: Visual and auditory methods Explanation and dialogue style	- Tests. Assignment Discussions
	3Practical	b10: The student is familiar with the production and manufacturing of feed	Practical: production and manufacturing of feed	Practical: Assignment and report	
Sixth	2 Theoretical	Theoretical: a5: The student understands amino acids - their functions - their classification - the ratio of energy to protein	Theoretical: Amino acids - their functions - their classification - the ratio of energy to protein	Theoretical: Visual and auditory methods Explanation and dialogue style	- Tests. Assignment Discussions
	3Practical	Practical: b11: The student is familiar with the formation and synthesis of relationships	Practical: the formation and synthesis of relationships	Practical: Assignment and report	
Seventh	2 Theoretical	Theoretical: b2: The student is familiar with the amino acid needs of chickens - the effect of a	Theoretical: the amino acid needs of chickens - the effect of a	Theoretical: Visual and auditory methods	- Tests. Assignment Discussions

		1-6-:	1-6-:	E14:	
		deficiency or excess of protein or amino acids - a field project	deficiency or excess of protein or amino acids - a field project	Explanation and dialogue style	
	3Practical	Practical: b12: The student is familiar with the formation and synthesis of relationships - a field project	Practical: formation and synthesis of relationships - a field project	Practical: Assignment and report	
Eighth	2 Theoretical	Theoretical: a6: The student learns about vitamins - classification of vitamins - factors affecting the vitamin needs of poultry	Theoretical: vitamins - classification of vitamins - factors affecting the vitamin needs of poultry	Theoretical: Visual and auditory methods Explanation and dialogue style	- Tests. Assignment Discussions
	3Practical	Practical: c1: The student identifies the contamination of feed materials with toxins	Practical: contamination of feed materials with toxins	Practical: Assignment and report	
Ninth	2 Theoretical	Theoretical: b3: The student is familiar with inorganic elements - their classification - their functions - the effect of their deficiency and increase in poultry diets.	Theoretical: inorganic elements - their classification - their functions - the effect of their deficiency and increase in poultry diets.	Theoretical: Visual and auditory methods Explanation and dialogue style	- Tests. Assignment Discussions
	3Practical	Practical: c2:The student is distinguished by mycotoxins and their prevention	Practical: Mycotoxins and their prevention	Practical: Assignment and report	
Tenth	2 Theoretical	Theoretical: b4: The student is familiar with water - its functions - water quality	Theoretical: water - its functions - water quality	Theoretical: Visual and auditory methods Explanation and dialogue style	- Tests. Assignment Discussions
	3Practical	Practical: c3: The student explains the specifications of a good feed formula	Practical: specifications of a good feed formula	Practical: Assignment and report	
Eleventh	2 Theoretical	Theoretical: a7: The student remembers digestion - the functions of the digestive system - the factors affecting the speed of food passage through the digestive system	Theoretical: digestion - the functions of the digestive system - the factors affecting the speed of food passage through the	Theoretical: Visual and auditory methods Explanation and dialogue style	- Tests. Assignment Discussions
	3Practical	Practical: c4: The student demonstrates standardization and quality control	Practical: standardization and quality control	Practical: Assignment and report	
Twelfth	2 Theoretical	Theoretical: b5: The student reveals the	Theoretical: final products of the	Theoretical: Visual and	- Tests. Assignment

		final products of the digestic		digestion of		auditory	Discussions
		of nutrients - the digestion o proteins - the digestion of carbohydrates - the digestion of fats - a field project		nutrients - the digestion of prote - the digestion of carbohydrates - th digestion of fats - field project	ne	methods Explanation and dialogue style	
	3Practical	Practical: b13: The student is familiar with storing fodder materials a field project	s -	Practical: storing fodder materials - a field project		Practical: Assignment and report	
Thirteen	2 Theoretical 3Practical	Theoretical: a8: The student learns about rancidity of fats and oils - digestion of mineral element - digestion of vitamins  Practical: b14: The student is familiar with storing fodder materials	ts	Theoretical: rancidity of fats and oils - digestion of mineral elements - digestion of vitamins  Practical: storing fodder		Theoretical: Visual and auditory methods Explanation and dialogue style  Practical: Assignment	- Tests. Assignment Discussions
fourteenth	2 Theoretical	Theoretical: a9: The student learns about metabolism - carbohydrate metabolism - fat metabolism		materials  Theoretical: metabolism - carbohydrate metabolism - fat metabolism		and report  Theoretical: Visual and auditory methods Explanation and dialogue style	- Tests. Assignment Discussions
	3Practical	Practical: b15: The student is familiar with biological tests		Practical: biological tests		Practical: Assignment and report	
Fifteenth	2 Theoretical	Theoretical: a10: The student learns about protein metabolism, mineral metabolism, and water metabolism		Theoretical: protein metabolism, mineral metabolism, and water metabolism		Theoretical: Visual and auditory methods Explanation and dialogue style	- Tests. Assignment Discussions
11. 0	3Practical	Practical: b16: The student is familiar with the type of mixed feed		Practical: type of mixed fee	d	Practical: Assignment and report	
11. Course Evaluation This service allows		Evaluation Methods	Cal	lendar	De	gree	Relative
customers to issue a permit		Diamation Methods	Ap	Calendar 1 Appointment Week)		5100	Weight%
1		Theoretical Final Report + Practical Experience Reports	The	neoretical Week 7The +6Proactical Week 1-		heoretical Practical	13%
2		Quiz (1)	_	Week (3)		heoretical Practical	6%
3		Midterm test (theoretical and practical)	We	Week (9)		Theoretical Practical	15%
4		Quiz (1)	We	Veek (12) 47		heoretical Practical	6%
5		Final Practical Test	Pra	actical Exam	20		20%

		Week				
6	Final theoretical test	Theoretical Exam	40	40%		
		Week				
	Total	100	100%			
12. Learning and Teaching	ng Resources					
Required textbooks ( method	dology if any )	Poultry Feeding Book				
Key References (Sources)		Poultry nutrition book				
Recommended supportin	g books and references					
(scientific journals, reports.	)					
E-References, Websites						

Dr. Khaled Hadi Mustafa

Instructor of theoretical subject

Dr. Ahmed Mohamed Thabet Qassem

Instructor of practical subject

Head Of Department

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Chairperson of the Scientific Committee