

Course Description of the Poultry Physiology

1.Course Name					
Poultry Physiology					
2.Course Code					
POPH328					
3.Term / Year					
Second Semester 2023-2024					
4.Description Preparation Date:					
1/2/2024					
5.A. Available Attendance Forms					
learning in presence					
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. Wasseem Khalid Ahmade					
Moustafa Abdel Basset Abdel Rahman					
8.Course Objectives					
<ul style="list-style-type: none"> - Enabling the student to understand and comprehend the functions of the various poultry body systems. - Enabling the student to understand and comprehend the mechanism of work of the organs of the body of poultry birds. - The student is introduced to several laboratory tests that are performed on blood. 					
9.Teaching and Learning Strategies					
<ul style="list-style-type: none"> - Interactive lecture - Brainstorming - Dialogue and discussion - Practical exercises 					
10.Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject Name	Learning method	Evaluation Method

1	2 Theoretical	A1: The student learns about the respiratory structure of domestic birds.	respiratory structure of domestic birds.	Auditory styles, writing style on the board, direct dialogue style.	Exams , assignment, discussions.
	3 Practical	B8: The student shows the structure of the blood and some of its physical characteristics.	The structure of blood and some of its physical qualities.	Laboratory work.	Exams , assignment, discussions.
2	2 Theoretical	B1: The student shows the mechanism of gaseous exchange of birds.	Gas exchange mechanism for domestic birds.	Auditory styles, writing style on the board, direct dialogue style.	Exams , assignment, discussions.
	3 Practical	B9: The student performs the blood draw in birds as well as the preparation of a blood slide.	The process of drawing blood in birds as well as the numbers of a blood slide.	Laboratory work.	Exams , assignment, discussions.
3	2 Theoretical	A2: Student learns about cardiac and circulatory physiology and neurological control	Heart and circulation	Auditory styles, writing style on the board, direct dialogue style.	Exams , assignment, discussions.
	3 Practical	B10: The student shows the body fluids, methods of estimating them and the factors affecting them	Body fluids, methods of estimating them and the factors affecting them	Auditory styles, writing style on the board, direct dialogue style.	Exams , assignment, discussions.
4	2 Theoretical	B2: The student shows the mechanism of rotation in poultry birds.	The sliding of the rotation.	Auditory styles, writing style on the board, direct dialogue style.	Exams , assignment, discussions.
	3 Practical	B11: The student shows the factors affecting red blood cells and	Factors affecting red blood cells and	Laboratory work.	Exams , assignment, discussions.

		implements the method of estimating them.	how they are estimated.		
5	2 Theoretical	A3: The student understands how the bird nervous system (CNS) works.	The central and peripheral nervous system.	Auditory styles, writing style on the board, direct dialogue style.	Exams , assignment, discussions.
	3 Practical	B12: The student shows the types of leukocytes and the method of estimating them, as well as estimating the size of red blood cells.	Leukocytes and the method of estimating them as well as estimating the size of red blood cells.	Laboratory work.	Exams , assignment, discussions.
6	2 Theoretical	B3: The student shows how the nervous system of birds (the peripheral nervous system) works.	neuron and synapse.	Auditory styles, writing style on the board, direct dialogue style.	Exams , assignment, discussions.
	3 Practical	B13: The student is familiar with anemia and the origin of blood cells as well as the hemoglobin estimation process.	Anemia and blood cell origin as well as hemoclobin estimation process.	Laboratory work.	Exams , assignment, discussions.
7	2 Theoretical	A4: The student learns about the components and functions of the bird urinary system as well as renal filtration.	Urinary system	Auditory styles, writing style on the board, direct dialogue style.	Exams , assignment, discussions.
	3 Practical	A8: The student learns about the endocrine glands, including the pituitary gland, its divisions, and some of its hormones.	Endocrine glands, including the pituitary gland, its divisions, and some of its hormones.	Auditory styles, writing style on the board, direct dialogue style.	Exams , assignment, discussions.
8	2 Theoretical	B4: The student shows the mechanism of action of the saline glands and the factors affecting	Salt glands and factors affecting them.	Auditory styles, writing style on the board, direct	Exams , assignment, discussions.

		their secretions, as well as the physical properties of the urine.		dialogue style.	
	3 Practical	B14: The student is familiar with the anterior and posterior pituitary hormones and the physiological effect of each hormone.	anterior and posterior pituitary hormones and the physiological effect of each hormone.	Auditory styles, writing style on the board, direct dialogue style.	Exams, assignment, discussions.
9	2 Theoretical	A5: The student learns about the structure of the digestive system in domestic birds.	Gastrointestinal	Auditory styles, writing style on the board, direct dialogue style.	Exams, assignment, discussions.
	3 Practical	A9: The student identifies the thyroid gland, the parathyroid gland, the terminal or bronchial gland, as well as the hormones secreted from these glands.	The thyroid gland, the parathyroid gland, and the terminal or bronchial gland.	Auditory styles, writing style on the board, direct dialogue style.	Exams, assignment, discussions.
10	2 Theoretical	B5: The student shows the mechanism of work of the digestive system as well as the organization of food intake and neurological control.	Gastrointestinal	Auditory styles, writing style on the board, direct dialogue style.	Exams, assignment, discussions.
	3 Practical	A10: The student learns about the adrenal gland, its hormones, and its physiological effect.	The adrenal gland, its hormones, and the physiological effect of it.	Auditory styles, writing style on the board, direct dialogue style.	Exams, assignment, discussions.
11	2 Theoretical	C1: The student explains the process of secretion, digestion, absorption, and the speed at which food passes through the gut.	The process of secretion, digestion and absorption.	Auditory styles, writing style on the board, direct dialogue style.	Exams, assignment, discussions.

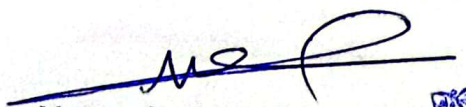
15	2 Theoretical	B7: The student shows the movement of the egg channel and the excretion of the egg as well as the sperm storage glands.	Egg channel movement and egg laying.	Auditory styles, writing style on the board, direct dialogue style.	Exams, assignment, discussions.
	3 Practical	B15: The student shows the mechanism of calcium metabolism and its sources in the shell of the egg.	The mechanism of calcium metabolism and its sources in the shell of the egg.	Auditory styles, writing style on the board, direct dialogue style.	Exams, assignment, discussions.

11. Course Evaluation

No.	evaluation methods	Calendar Appointment (Week)	Score	Relative Weight%
1	Midterm test (theoretical and practical)	Week 9	25 Theoretical + 15 Practical	40 %
2	Final Practical Test	Practical Exams Week	20	20%
3	Final theoretical test	Theoretical Exam Week	40	40 %
4	Total		100	100%

12. Learning and Teaching Resources

Required textbooks (methodology if any)	The Physiology of Poultry : Written by/ Prof. Dr Daa Hassan Al-Hassani.
Key References (Sources)	
Recommended supporting books and references (scientific journals, reports...)	
E-References , Websites	



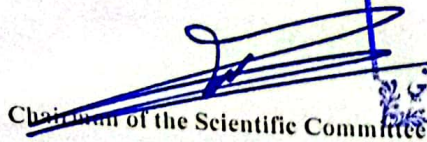
Moustafa Abdel Basset Abdel Rahman

Instructor of practical subject




Dr. Wassem Khalid Ahmade

Instructor of theoretical subject



Chairman of the Scientific Committee





Head of Department