

Course Description Form

1. Course Name:					
The physiology of reproduction					
2. Course Code:					
REPH333					
3. Semester / Year:					
Semester 2 / 2023- 2024					
4. Description Preparation Date:					
1/2/2024					
5. Available Attendance Forms:					
Lectures and electronic					
6. Number of Credit Hours / Number of Units					
(75) Hours / (3.5) Units					
7. Course administrator's name (mention all, if more than one name)					
Name: literature. Mohammad Salem Ibrahem Email: mohammad_almoteoty@uomosul.edu.iq					
8. Course Objectives					
Course Objectives			Introducing the student to the types of food materials. Preparing hooks according to the product status of the animal Balancing the Relationships		
9. Teaching and Learning Strategies					
Strategy		Classroom lectures Online Lectures Videoconferencing			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	<p>Theoretic 2 Practical 3</p>	<p>Theoretical: a1 Learn about hormones, the structure, method and regulation of the action of hormones Practical: b9 Explains the optical microscope and laboratory equipment in the physiology laboratory</p>	<p>Theoretical: hormones, the structure, method and regulation of the action of hormones Practical: b9 microscope and laboratory equipment in the physiology laboratory</p>	<p>Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks And report</p>	<p>short exam Assignment of duty discussion</p>
2	<p>Theoretic 2 Practical 3</p>	<p>theoretical a2 Explains what the pituitary gland is, its structure and hormones practical a10 Learn about the anatomy of the male reproductive system</p>	<p>theoretical The pituitary gland, its structure and hormones practical a10 Anatomy of the male reproductive system</p>	<p>Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks And report</p>	<p>hort exam Assignment of duty discussion</p>
3	<p>heoretical 2 Practical 3</p>	<p>Theoretical: A3 He knows the pineal gland and the adrenal</p>	<p>Theoretical: The pineal gland and the adrenal gland,</p>	<p>Methods audio Writing style</p>	<p>hort exam Assignment of duty</p>

		<p>gland, their structure, functions, locations, and the most important practical a11</p> <p>Mentions the anatomy of the female reproductive system</p>	<p>their structure, functions, locations, and the most important characteristics of the hormone practical a11</p> <p>Anatomy of the female reproductive system</p>	<p>On the board</p> <p>Dialogue style</p> <p>Direct</p> <p>practical:</p> <p>Assigning tasks</p> <p>And report</p>	<p>discussions</p>
4	<p>theoretical 2</p> <p>Practical 3</p>	<p>Theoretical: A4</p> <p>Understands the male reproductive systems, which are the testicles, epididymis, vas deferens, accessory glands, and female reproductive systems</p> <p>practical b8</p> <p>Shows the measurement of testicular</p>	<p>The male reproductive organs are the testicles, epididymis, vas deferens, and accessory glands</p> <p>Practical b8</p> <p>Testicle dimensions and testicular tissue composition</p>	<p>Methods</p> <p>audio</p> <p>Writing style</p> <p>On the board</p> <p>Dialogue style</p> <p>Direct</p> <p>practical:</p> <p>Assigning tasks</p> <p>And report</p>	<p>hort exam</p> <p>Assignment of duty</p> <p>discussions</p>
5	<p>theoretical 2</p> <p>Practical 3</p>	<p>Theoretical b1</p> <p>Explains the</p>	<p>Theoretical</p> <p>Hormones related to</p>	<p>Methods</p> <p>audio</p>	<p>hort exam</p> <p>Assignment</p>

		<p>hormones related to reproduction (estrogens, androgens, progesterone)</p> <p>practical a12</p> <p>Learn about theoretical embryo transfer</p>	<p>reproduction (estrogens, androgens, progesterone)</p> <p>practical Embryo transfer</p>	<p>Writing style</p> <p>On the board</p> <p>Dialogue style</p> <p>Direct</p> <p>practical:</p> <p>Assigning tasks</p> <p>And report</p>	<p>of duty discussions</p>
6	<p>theoretical 2</p> <p>Practical 3</p>	<p>theoretical a5</p> <p>Understands the types of chemical messengers in the body of living organisms, regulating hormone secretion</p> <p>Practical b9</p> <p>Explains methods of collecting semen</p>	<p>theoretical</p> <p>Types of chemical messengers in the organism's body, regulating hormone secretion</p> <p>Practical</p> <p>Methods of semen collection</p>	<p>Methods</p> <p>audio</p> <p>Writing style</p> <p>On the board</p> <p>Dialogue style</p> <p>Direct</p> <p>practical:</p> <p>Assigning tasks</p> <p>And report</p>	<p>hort exam</p> <p>Assignment of duty discussions</p> <p>Scientific visit to the Faculty of Veterinary Medicine</p>
7	<p>theoretical 2</p> <p>Practical 3</p>	<p>Theoretical A6</p> <p>determines Sexual cycles and their types in animals, self-ovulating</p>	<p>theoretical</p> <p>Sexual cycles and their types in animals, self-ovulating animals, animals</p>	<p>Methods</p> <p>audio</p> <p>Writing style</p> <p>On the board</p> <p>Dialogue style</p>	<p>hort exam</p> <p>Assignment of duty discussions</p>

		<p>animals, animals</p> <p>practical b10</p> <p>The application is carried out to measure the volume, consistency and pH of semen</p>	<p>practical</p> <p>Measuring the volume, consistency and pH of semen</p>	<p>Direct</p> <p>practical:</p> <p>Assigning tasks</p> <p>And report</p>	
8	<p>theoretical 2</p> <p>Practical 3</p>	<p>Theoretical b2</p> <p>Shows reproductive seasons in farm animals, uniformity of estrus in ewes</p> <p>Practicalc1</p> <p>The measurement of live, dead and deformed sperm is calculated</p>	<p>Theoretical</p> <p>Reproductive seasons in farm animals, standardization of estrus in ewes</p> <p>Practical</p> <p>The measurement of live, dead and deformed sperm is calculated</p>	<p>Methods</p> <p>audio</p> <p>Writing style</p> <p>On the board</p> <p>Dialogue style</p> <p>Direct</p> <p>practical:</p> <p>Assigning tasks</p> <p>And report</p>	<p>hort exam</p> <p>Assignment of duty discussions</p>
9	<p>theoretical 2</p> <p>Practical 3</p>	<p>theoretical a7</p> <p>Recognizes the difference between growth and sexual maturity in farm animals (its definition,</p>	<p>Theoretical</p> <p>Growth and sexual maturity in farm animals (definition, age of sexual maturity in animals</p>	<p>Methods</p> <p>audio</p> <p>Writing style</p> <p>On the board</p> <p>Dialogue style</p> <p>Direct</p>	<p>hort exam</p> <p>Assignment of duty discussions</p>

		<p>the age of sexual maturity in animals</p> <p>Practicalc2</p> <p>The procedure of measuring sperm concentration using a hemocytometer is carried out</p>	<p>Practical</p> <p>Sperm concentration by hemocytometry</p>	<p>practical:</p> <p>Assigning tasks</p> <p>And report</p>	
10	<p>theoretical 2</p> <p>Practical 3</p>	<p>theoretical b3</p> <p>Compares sexual maturity in farmed animals (definition, age of sexual maturity</p> <p>Practical c3</p> <p>A semen dilution is applied</p>	<p>theoretical</p> <p>Compares sexual maturity in farmed animals (definition, age of sexual maturity</p> <p>Practical</p> <p>A semen dilution is applied</p>	<p>Methods</p> <p>audio</p> <p>Writing style</p> <p>On the board</p> <p>Dialogue style</p> <p>Direct</p> <p>practical:</p> <p>Assigning tasks</p> <p>And report</p>	<p>hort exam</p> <p>Assignment of duty discussions</p>
11	<p>theoretical 2</p> <p>Practical 3</p>	<p>theoretical b4</p> <p>Defines the difference between insemination and fertilization in farm animals</p> <p>Practical b11</p>	<p>theoretical</p> <p>Pollination and fertilization in farm animals</p> <p>Practical</p>	<p>Methods</p> <p>audio</p> <p>Writing style</p> <p>On the board</p> <p>Dialogue style</p> <p>Direct</p>	<p>hort exam</p> <p>Assignment of duty discussions</p>

		Explains the procedure for freezing semen	Semen freezing	practical: Assigning tasks And report	
12	theoretical 2 Practical 3	theoretical a8 Determines pregnancy and delivery in farm animals, fertilization and pregnancy Practical a13 Identify the components of seminal plasma	theoretical Pregnancy and childbirth in farm animals, fertilization and pregnancy Practical Components of seminal plasma	Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks And report	hort exam Assignment of duty discussions
13	theoretical 2 Practical 3	theoretical a9 Understands the mammary gland and the hormonal control of its development in farm animals and the lactation process practical a14 It is mentioned for	theoretical The mammary gland and hormonal control over its development in farm animals and the lactation process practical Artificial	Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks And report	hort exam Assignment of duty discussions

		artificial insemination in cows	insemination in cows		
14	theoretical 2 Practical 3	<p>theoretical b5</p> <p>It shows fertility, sterility, and the factors causing low fertility in farmed animals</p> <p>Practical b12</p> <p>He knows how to artificially inseminate bulls</p>	<p>theoretical</p> <p>Fertility, infertility, and factors causing low fertility in farm animals</p> <p>Practical</p> <p>Management of vaccination bulls</p>	<p>Methods</p> <p>audio</p> <p>Writing style</p> <p>On the board</p> <p>Dialogue style</p> <p>Direct practical:</p> <p>Assigning tasks</p> <p>And report</p>	<p>hort exam</p> <p>Assignment of duty discussions</p>
15	theoretical 2 Practical 3	<p>theoretical b6</p> <p>Shows the factors affecting infertility in males and females</p> <p>practical c4</p> <p>Explains the specifications of the bull toss</p>	<p>theoretical</p> <p>Factors affecting infertility in males and females</p> <p>Practical</p> <p>Explains the specifications of the bull toss</p>	<p>Methods</p> <p>audio</p> <p>Writing style</p> <p>On the board</p> <p>Dialogue style</p> <p>Direct practical:</p> <p>Assigning tasks</p>	<p>hort exam</p> <p>Assignment of duty discussions</p>

				And report	
11. Course Evaluation					
Distribution of the score from 100 according to the tasks assigned to the student such as daily preparation 5 degrees and daily examinations 5 degrees and monthly 80 degrees and reports 10 degrees					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			Book of Fodder and feeding		
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites			http://www.anypdftools.com/buy/buy-pdf-splitter.html		

11- Course evaluation			
Calendar methods	Calendar appointment	Class	Relative weight%
Theoretical final report + practical	My theory is week 15	7 theoretical + 6 practical 4	13%
Short test	My work week 1 - 15	theoretical + 2 practical 10	6%
A theoretical and practical midterm test	week (3)	theoretical + 5 practical 4	15%
Short test	week (9)	theoretical + 2 practical	6%
Final practical test	week (12)	20	20%
Final theoretical test	Final exam week	40	40%
total	Final exam week	100	%100
12. Learning and teaching resources			

Required textbooks (methodology, if any)	Required textbooks (methodology, if any)
Book on the physiology of reproduction and pollination Artificial 1990	Main references (sources) Recommended supporting
Assisted reproductive technologies in animals Farm 2018 Reproduction in farm animals	books and references (scientific journals, reports....)
NRC National Report Bulletin 2001, 2007	Electronic references, Internet sites

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