



## Course Specification of Poultry Diseases (1)

I. Course Identification and General Information:						
1	<b>Course Title:</b>	Poultry diseases (1)				
2	<b>Course Number &amp; Code:</b>	PA473				
3	<b>Credit hours:</b>	C.H				Total
		Theoretical	Practical	Training	Seminar	
		2	1			3
4	<b>Study level/ semester at which this course is offered:</b>	Level 4 - First semester				
5	<b>Pre –requisite (if any):</b>	MI352, MI353, MI355, MI357				
6	<b>Co –requisite (if any):</b>	-----				
7	<b>Program (s) in which the course is offered:</b>	Bachelor in Veterinary Medicine				
8	<b>Language of teaching the course:</b>	Arabic/ English				
9	<b>Location of teaching the course:</b>	Faculty of Veterinary Medicine				
10	<b>Prepared by:</b>	Dr. Gameel A. AL- Maktari Dr. Ghazi A. Zohair				
11	<b>Date of approval:</b>					

### II. Course description:

By the end of this course, the student should be able to distinguish the pathogenesis of Viral and Fungal diseases of poultry beside the nutritional disorders and gained the basic knowledge and experience

Prepared by  
Dr. Abdulraqeb Alshami

Vice Dean For Quality  
Affairs  
Dr. Abdulraqeb Alshami

Dean of the Faculty  
Ass. Prof. Dr. Abdu Alraoof  
Al-Shawkany

Dean of Development  
Center & Quality  
Assurance  
Ass. Prof. Dr. Huda Al-  
Emad

Rector of Sana'a University  
Prof. Dr. Al-Qassim Mohammed Abbas



required to recognize the field and laboratory methods of diagnosis, treatment, control and prevention of poultry diseases.

**III. Intended learning outcomes (ILOs) of the course:**

**(A) Knowledge and Understanding:**

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **Knowledge and Understanding.**

Program Intended Learning Outcomes (Sub-PILOs) in: Knowledge and Understanding		Course Intended Learning Outcomes (CILOs) in: Knowledge and Understanding	
After completing this program, students will be able to:		After completing this course, students will be able to:	
A1-	Demonstrate a sound knowledge and understanding of concepts and principles of general culture, basic science, and that support veterinary medicine.	a1-	Present information about different scientific terms about poultry species and poultry diseases.
A2-	Clarifies basic concepts, principles, and theories related to animal production, animal health and nutrition, behavior management, breeding and care that is related to animal ethical codes.	a2-	Identify the signs and lesions of different Viral, Nutritional and Fungal diseases.

**Teaching And Assessment Methods For Achieving Learning Outcomes:**

Alignment of Learning Outcomes of Knowledge and Understanding to Teaching and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in Knowledge and Understanding		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		<ul style="list-style-type: none"> <li>▪ Lectures</li> <li>▪ Discussion and Dialogue</li> <li>▪ Practical application.</li> <li>▪ Poultry farms visits.</li> <li>▪ Clinical and field training.</li> <li>▪ Simulation and mental offers</li> </ul>	<ul style="list-style-type: none"> <li>▪ Written Exams.</li> <li>▪ Quiz</li> <li>▪ Essay tests</li> <li>▪ Oral exams</li> <li>▪ Practical exams.</li> <li>▪ Reports.</li> </ul>
a1-	Present information about different scientific terms about poultry species and poultry diseases.		
a2-	Identify the signs and lesions of different Viral, Nutritional and Fungal diseases.		

Prepared by  
 Dr. Gameel AL- Maktari  
 Dr. Ghazi Zohair

Vice Dean For Quality  
 Affairs  
 Dr. Abdulraqeb Alshami

Dean of the Faculty  
 Ass. Prof. Dr. Abdu Alraoof  
 Al-Shawkany

Dean of Development  
 Center & Quality  
 Assurance  
 Ass. Prof. Dr. Huda Al-  
 Emad

Rector of Sana'a University  
 Prof. Dr. Al-Qassim Mohammed Abbas



	<ul style="list-style-type: none"> <li>▪ Brain storm</li> <li>▪ Self-education</li> </ul>	
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**(B) Intellectual Skills:**

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **Intellectual skills**

Program Intended Learning Outcomes (Sub-PILOs) in Intellectual skills		Course Intended Learning Outcomes (CILOs) of Intellectual Skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
<b>B1-</b>	Competently practices analytical and critical thinking skills in studying and assessing health problems and reading the results of animal medical examinations and in related sciences.	<b>b1-</b>	Compare the pathogenesis and epidemiology of viral and fungal diseases of poultry.
<b>B3-</b>	Design appropriate nursing and treatment care plans for different animal diseases and determine prioritizing of therapeutic.	<b>b2-</b>	Suggest preventive medication and vaccination programs

**Teaching And Assessment Methods For Achieving Learning Outcomes:**

Alignment of Learning Outcomes of Intellectual Skills to Teaching Methods and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in Intellectual Skills.		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:			
<b>b1-</b>	Compare the pathogenesis and epidemiology of viral and fungal diseases of poultry.	<ul style="list-style-type: none"> <li>▪ Lectures</li> <li>▪ Discussion and Dialogue</li> <li>▪ Practical application.</li> <li>▪ Poultry farms visits.</li> <li>▪ Clinical and field training.</li> <li>▪ Simulation and mental offers</li> <li>▪ Brain storm</li> <li>▪ Self-education</li> </ul>	<ul style="list-style-type: none"> <li>▪ Written Exams.</li> <li>▪ Quiz</li> <li>▪ Essay tests</li> <li>▪ Oral exams</li> <li>▪ Practical exams.</li> <li>▪ Reports.</li> </ul>
<b>b3-</b>	Suggest preventive medication and vaccination programs		

**(C) Professional and Practical Skills:**

Prepared by  
 Dr. Gameel AL- Maktari  
 Dr. Ghazi Zohair

Vice Dean For Quality  
 Affairs  
 Dr. Abdulraqeb Alshami

Dean of the Faculty  
 Ass. Prof. Dr. Abdu Alraoof  
 Al-Shawkany

Dean of Development  
 Center & Quality  
 Assurance  
 Ass. Prof. Dr. Huda Al-  
 Emad

Rector of Sana'a University  
 Prof. Dr. Al-Qassim Mohammed Abbas



Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: <b>Professional and Practical Skills</b>			
Program Intended Learning Outcomes ( <b>Sub-PILOs</b> ) in Professional and Practical Skills		Course Intended Learning Outcomes ( <b>CILOs</b> ) in Professional and Practical Skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
<b>C1-</b>	Treats of animal patients safely and effectively taking into account the evaluation of the results, the appropriate modification of the treatment plan and the accurate description of the appropriate medications.	<b>c1-</b>	Practice medication and vaccination programs against different poultry diseases.
<b>C2-</b>	Practicing practical, diagnostic, clinical and research skills, including the collection of samples in various fields of veterinary medicine and related sciences, in a safe and effective manner, taking into account the ethics of the profession.	<b>c2-</b>	Perform postmortem examination for died and sick chickens collecting data for disease diagnosis.
<b>Teaching And Assessment Methods For Achieving Learning Outcomes:</b>			
Alignment of Learning Outcomes of Professional and Practical Skills to Teaching and Assessment Methods:			
Course Intended Learning Outcomes ( <b>CILOs</b> ) in Professional and Practical Skills		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		<ul style="list-style-type: none"> <li>▪ Practical applications.</li> <li>▪ Poultry farms visits.</li> <li>▪ Clinical and field training.</li> <li>▪ Simulation and mental offers.</li> <li>▪ Problems solving exam</li> <li>▪ Researches and projects.</li> <li>▪ Group and individual work.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Written Exams.</li> <li>▪ Oral exams</li> <li>▪ Practical exams.</li> <li>▪ Observations.</li> <li>▪ Reports.</li> <li>▪ Skills demonstrations.</li> <li>▪ Seminars.</li> <li>▪ Oral exam</li> </ul>
<b>c1-</b>	Practice medication and vaccination programs against different poultry diseases.		
<b>c2-</b>	Perform postmortem examination for died and sick chickens collecting data for disease diagnosis.		

Prepared by  
 Dr. Gameel AL- Maktari  
 Dr. Ghazi Zohair

Vice Dean For Quality  
 Affairs  
 Dr. Abdurraqeb Alshami

Dean of the Faculty  
 Ass. Prof. Dr. Abdu Alraoof  
 Al-Shawkany

Dean of Development  
 Center & Quality  
 Assurance  
 Ass. Prof. Dr. Huda Al-  
 Emad

Rector of Sana'a University  
 Prof. Dr. Al-Qassim Mohammed Abbas



**(D) General / Transferable Skills:**

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **General and Transferable skills**

Program Intended Learning Outcomes (PILOs) in General / Transferable skills		Course Intended Learning Outcomes (CILOs) in General / Transferable skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
<b>D2-</b>	Develops his scientific, professional and research capabilities and follow what is emerging in his field of specialization and using computer applications and information and communication technology.	<b>d1-</b>	Utilize library, computer and internet facilities.
<b>D3-</b>	Communicates effectively with Professional colleagues and animal owners and expresses his ideas clearly and objectively.	<b>d2-</b>	Communicate with colleagues and poultry specialists.

**Teaching And Assessment Methods For Achieving Learning Outcomes:**

Alignment of Learning Outcomes of General and Transferable skills to Teaching and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in General and Transferable Skills		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		<ul style="list-style-type: none"> <li>▪ Discussion and Dialogue</li> <li>▪ Poultry farms visits.</li> <li>▪ Seminars.</li> <li>▪ Problems solving exam</li> <li>▪ Researches and projects.</li> <li>▪ Self-education.</li> <li>▪ Group working.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Practical exams.</li> <li>▪ Observations.</li> <li>▪ Reports.</li> <li>▪ Skills demonstrations.</li> <li>▪ Seminars.</li> <li>▪ Oral Exam</li> </ul>
<b>d1-</b>	Utilize library, computer and internet facilities.		
<b>d2-</b>	Communicate with colleagues and poultry specialists.		

Prepared by  
 Dr. Gameel AL- Maktari  
 Dr. Ghazi Zohair

Vice Dean For Quality  
 Affairs  
 Dr. Abdurraqeb Alshami

Dean of the Faculty  
 Ass. Prof. Dr. Abdu Alraoof  
 Al-Shawkany

Dean of Development  
 Center & Quality  
 Assurance  
 Ass. Prof. Dr. Huda Al-  
 Emad

Rector of Sana'a University  
 Prof. Dr. Al-Qassim Mohammed Abbas



#### IV. Course Content:

##### 1 – Course Topics/Items:

##### a – Theoretical Aspect

Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	Introduction	a1,a2,	General concept of poultry diseases - Poultry industry in Yemen	1	2
2	Viral diseases of poultry	a1,a2,b1,b2, d1, d2	Newcastle disease, Avian metapneumovirus, Infectious Bronchitis., Infectious laryngotracheitis, Avian influenza, Infectious bursal disease, Chicken infectious anemia, Adenovirus infections, Fowl Pox, Marek's disease, Leukosis, other tumor diseases.	6	12
3	Nutrition diseases of poultry	a1,a2,b1,b2, d1, d2	Vitamin A deficiency, Vit. D Def., Vit. E Def., Thiamin (B1) Def., Riboflavin (B2) Def. Biotin Def., Calcium phosphorous imbalance.	3	6
4	Fungal diseases of poultry	a1,a2,b1,b2, d1, d2	Avian Aspergillosis, Dectylariosis, Candidiasis	1	2
5	Mycotoxicoses in poultry	a1,a2,b1,b2, d1, d2	Aflatoxines, Ochratoxines, Citrinin, Oosporein, other mycotoxines	2	4
6	Miscellaneous conditions of poultry	a1,a2,b1,b2, d1, d2	Ascites, Sudden death syndrome, Haemorrhagic fatty liver, Cystic ovary, Prolapse of the oviduct,	1	2
<b>Number of Weeks /and Units Per Semester</b>				<b>14</b>	<b>28</b>

Prepared by  
 Dr. Gameel AL- Maktari  
 Dr. Ghazi Zohair

Vice Dean For Quality  
 Affairs  
 Dr. Abduraqeb Alshami

Dean of the Faculty  
 Ass. Prof. Dr. Abdu Alraoof  
 Al-Shawkany

Dean of Development  
 Center & Quality  
 Assurance  
 Ass. Prof. Dr. Huda Al-  
 Emad

Rector of Sana'a University  
 Prof. Dr. Al-Qassim Mohammed Abbas



<b>b- Training Aspect:</b>				
Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
1	Signs of health and sickness, body parts	a1, d1	1	2
2	Post mortem examination	a1,c2,d1	1	2
3	Sampling (for Viral, Fungal infection and mycotoxicosis test).	a1,c2,c3,d1	1	2
4	Methods of Isolation and identification of avian viruses.	a1,c2,c3,d1	1	2
5	Serological tests used in identification of poultry viral pathogens.	• a1,c2,d1	1	2
6	Clinical cases	a1,c1,c2,d1	1	2
7	Clinical cases	a1,c1,c2,d1	1	2
8	Clinical cases/ slides	a1,c1,c2,d1	1	2
9	Poultry Vaccines and vaccination programs	a1,c1,c2,d1	1	2
10	Poultry medication	a1,c1,c2,d1	1	2
11	Poultry farm visits	a1,c1,c2,d1	1	2
12	Disinfection and Biosecurity	a1,c1,c2,d1	1	2
13	Poultry farm visits	a1,c1,c2,d1,d2	1	2
14	Clinical cases/ slides	a1,c1,c2,d1	1	2
<b>Number of Weeks /and Units Per Semester</b>			<b>14</b>	<b>28</b>

**V. Teaching strategies of the course:**

Prepared by  
 Dr. Gameel AL- Maktari  
 Dr. Ghazi Zohair

Vice Dean For Quality  
 Affairs  
 Dr. Abdulraqeb Alshami

Dean of the Faculty  
 Ass. Prof. Dr. Abdu Alraoof  
 Al-Shawkany

Dean of Development  
 Center & Quality  
 Assurance  
 Ass. Prof. Dr. Huda Al-  
 Emad

Rector of Sana'a University  
 Prof. Dr. Al-Qassim Mohammed Abbas



### 3-Assessment Methods:

- Lectures
  - Discussion and Dialogue
  - Practical application (Clinic).
  - Poultry farms visits.
  - Clinical and field training.
  - Simulation and mental offers
  - Brain storm
- Self-education

### VI. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
1	Participation, quizzes and assignments	2-14	10	10%	ALL CILOs
2	Mid-Term Exam	8	10	10%	ALL CILOs
3	Mid-Term Practical Exam	8	10	10%	ALL CILOs
4	Final Practical Exam	13	10	10%	ALL CILOs
5	Oral Exam	13	5	5%	ALL CILOs
	Final Exam	16	55	55%	ALL CILOs
	<b>Total</b>		<b>100</b>	<b>100%</b>	

Prepared by  
 Dr. Gameel AL- Maktari  
 Dr. Ghazi Zohair

Vice Dean For Quality  
 Affairs  
 Dr. Abdulraqeb Alshami

Dean of the Faculty  
 Ass. Prof. Dr. Abdu Alraoof  
 Al-Shawkany

Dean of Development  
 Center & Quality  
 Assurance  
 Ass. Prof. Dr. Huda Al-  
 Emad

Rector of Sana'a University  
 Prof. Dr. Al-Qassim Mohammed Abbas





<b>VII. Students' Support:</b>	
Office Hours/week	Other Procedures (if any)
4 hours/week	

<b>VIII. Learning Resource (MLA style or APA style)S:</b>	
<b>Required Textbook(s) ( maximum two )</b>	
	<ul style="list-style-type: none"> <li>• Diseases of Poultry (2020) David E. et al., Willy Blackwell, aaap, 14<sup>th</sup> edition</li> <li>• Avian Diseases Manual, 2013, 7th Edition, AAAP publication. Jacksonville, FL</li> </ul>
<b>Recommended Readings and Reference Materials</b>	
	<p>2- Isolation, Identification and characterization of Avian Pathogens, (2008), 5<sup>th</sup> ed. AAAP publication Jacksonville, FL</p> <p>1- Avian Histopathology, 2008, Ed. O. Fletcher, 3rd Ed, AAAP publication. Jacksonville, FL.</p>
<b>Essential References</b>	
	<p>1-Diseases of Poultry Journal.</p> <p>2-Poultry Science Journal.</p> <p>3-Avian Pathology Journal.</p>
<b>Electronic Materials and Web Sites etc.</b>	
	<p><a href="http://www.poultrydiseases.org">www.poultrydiseases.org</a></p> <p><a href="http://www.thepoultrysite.com">www.thepoultrysite.com</a></p> <p><a href="http://www.poultrymed.com">www.poultrymed.com</a></p>
<b>Other Learning Material:</b>	

Prepared by  
 Dr. Gameel AL- Maktari  
 Dr. Ghazi Zohair

Vice Dean For Quality  
 Affairs  
 Dr. Abdulraqeb Alshami

Dean of the Faculty  
 Ass. Prof. Dr. Abdu Alraoof  
 Al-Shawkany

Dean of Development  
 Center & Quality  
 Assurance  
 Ass. Prof. Dr. Huda Al-  
 Emad

Rector of Sana'a University  
 Prof. Dr. Al-Qassim Mohammed Abbas



<b>X. Course Policies:</b>	
<b>1</b>	<b>Class Attendance:</b> MANDATORY TO ATTEND ALL COURSE LECTURES
<b>2</b>	<b>Tardy:</b> Not allowed at all. Students must be in class 10 minutes prior to the beginning of lectures.
<b>3</b>	<b>Exam Attendance/Punctuality:</b> Attendance is mandatory; absence is accepted with valid excuse.
<b>4</b>	<b>Assignments &amp; Projects:</b> All assignments and projects are to be submitted on their due date. Any assignment turned in after the due date will not be accepted without valid and reasonable excuse.
<b>5</b>	<b>Cheating:</b> Not tolerated and may lead to EXPELLING the student from the program
<b>6</b>	<b>Plagiarism:</b> Not tolerated AT ALL and may lead to EXPELLING the student from the program
<b>7</b>	<b>Other policies:</b> <ol style="list-style-type: none"> <li>1.All devices must be on silent or at least on vibration during lectures/labs.</li> <li>2.Before any exam (written, practical, oral) student's identity will be checked (student's card, ID, passport). Without any of these documents, the student will not be allowed in the exam room.</li> <li>3.Any of type/ form of cheating is not allowed no matter what.</li> <li>4.Maintain silence during lectures and disturbance is not allowed.</li> </ol>

Prepared by  
 Dr. Gameel AL- Maktari  
 Dr. Ghazi Zohair

Vice Dean For Quality  
 Affairs  
 Dr. Abdulraqeb Alshami

Dean of the Faculty  
 Ass. Prof. Dr. Abdu Alraoof  
 Al-Shawkany

Dean of Development  
 Center & Quality  
 Assurance  
 Ass. Prof. Dr. Huda Al-  
 Emad

Rector of Sana'a University  
 Prof. Dr. Al-Qassim Mohammed Abbas



## Course Plan of Poultry Diseases (1)

X. - Information about Faculty Member Responsible for the Course:								
Name of Faculty Member	Dr. Gameel A. AL-Maktari Dr. Ghazi A. Zohair		Office Hours					
Location & Telephone No.	777710051 777278099		SAT	SUN	MON	TUE	WED	THU
E-mail	<a href="mailto:Maktary63@gmail.com">Maktary63@gmail.com</a> <a href="mailto:Gzohair8@gmail.com">Gzohair8@gmail.com</a>		2			2		

XI. Course Identification and General Information:						
1	Course Title:	Poultry diseases (1)				
2	Course Number & Code:	PA473				
3	Credit hours:	C.H				Total
		Th.	Seminar	Pr.	F. Tr.	
		2		1		3
4	Study level/year at which this course is offered:	Level 4, First semester				
5	Pre –requisite (if any):	MI352, MI353, MI355, MI357				
6	Co –requisite (if any):	None				
7	Program (s) in which the course is offered	Bachelor in Veterinary Medicine				
8	Language of teaching the course:	Arabic/ English				
9	System of Study:	Regular / Semesters				
10	Mode of delivery:	Lectures and Practical				
11	Location of teaching the course:	Faculty of Veterinary Medicine				

Prepared by  
 Dr. Gameel AL- Maktari  
 Dr. Ghazi Zohair

Vice Dean For Quality  
 Affairs  
 Dr. Abdurraqeb Alshami

Dean of the Faculty  
 Ass. Prof. Dr. Abdu Alraoof  
 Al-Shawkany

Dean of Development  
 Center & Quality  
 Assurance  
 Ass. Prof. Dr. Huda Al-  
 Emad



## II. Course Description:

By the end of this course, the student should be able to distinguish the pathogenesis of Viral and Fungal diseases of poultry beside the nutritional disorders and gained the basic knowledge and experience required to recognize the field and laboratory methods of diagnosis, treatment, control and prevention of poultry diseases.

## X. Intended learning outcomes (ILOs) of the course:

**After completing this course, students will be able to:**

- a1- Present information about different scientific terms about poultry species and poultry diseases.
- a2- Identify the signs and lesions of different Viral, Nutritional and Fungal diseases.
- b1- Compare the pathogenesis and epidemiology of viral and fungal diseases of poultry.
- b2- Suggest preventive medication and vaccination programs.
- c1- Practice medication and vaccination programs against different poultry diseases.
- c2- Perform postmortem examination for died and sick chickens collecting data for disease diagnosis.
- d1- Utilize library, computer and internet facilities.
- d2- Communicate with colleagues and poultry specialists.

## XI. Course Content:

Prepared by  
Dr. Gameel AL- Maktari  
Dr. Ghazi Zohair

Vice Dean For Quality  
Affairs  
Dr. Abdurraqeb Alshami

Dean of the Faculty  
Ass. Prof. Dr. Abdu Alraoof  
Al-Shawkany

Dean of Development  
Center & Quality  
Assurance  
Ass. Prof. Dr. Huda Al-  
Emad

Rector of Sana'a University  
Prof. Dr. Al-Qassim Mohammed Abbas



<b>A – Theoretical Aspect:</b>			
<b>Order</b>	<b>Topics List</b>	<b>Week Due</b>	<b>Contact Hours</b>
1	General concept of poultry diseases - Poultry industry in Yemen	W1	2
2	Newcastle disease, Avian metapneumovirus, Infectious Bronchitis., Infectious laryngotracheitis, Avian influenza, Infectious bursal disease, Chicken infectious anemia, Adenovirus infections, Fowl Pox, Marek's disease, Leukosis, other tumor diseases.	W2-w7	12
3	<b>Mid-Term Exam</b>	w8	2
4	Vitamin A deficiency, Vit. D Def., Vit. E Def., Thiamin (B1) Def., Riboflavin (B2) Def. Biotin Def., Calcium phosphorus imbalance.	W9-w11	6
5	Avian Aspergillosis, Dectylariosis, Candidiasis	W12	2
6	Aflatoxines, Ochratoxines, Citrinin, Oosporein, other mycotoxines	W13-w14	4
7	Ascites, Sudden death syndrome, Haemorrhagic fatty liver, Cystic ovary, Prolapse of the oviduct,	W15	2
8	<b>Final Exam</b>	w16	2
<b>Number of Weeks /and Units Per Semester</b>		<b>16</b>	<b>32</b>

Prepared by  
 Dr. Gameel AL- Maktari  
 Dr. Ghazi Zohair

Vice Dean For Quality  
 Affairs  
 Dr. Abdurraqeb Alshami

Dean of the Faculty  
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 Al-Shawkany

Dean of Development  
 Center & Quality  
 Assurance  
 Ass. Prof. Dr. Huda Al-  
 Emad

Rector of Sana'a University  
 Prof. Dr. Al-Qassim Mohammed Abbas



<b>b- Training Aspect:</b>			
Order	Training Tasks	Week Due	Contact hours
1	Signs of health and sickness, body parts	W1	2
2	Post mortem examination	W2	2
3	Sampling (for Viral, Fungal infection and mycotoxicosis test).	W3	2
4	Methods of Isolation and identification of avian viruses.	W4	2
5	Serological tests used in identification of poultry viral pathogens.	W5	2
6	Clinical cases	W6	2
7	Clinical cases	W7	2
8	Midterm Exam	W8	2
9	Clinical cases/ slides	W9	2
10	Poultry Vaccines and vaccination programs	W10	2
11	Poultry medication	W11	2
12	Poultry farm visits	W12	2
13	Disinfection and Biosecurity	W13	2
14	Poultry farm visits	W14	2
15	Clinical cases	W15	2
16	<b>Final Exam</b>	W16	2
<b>Number of Weeks /and Units Per Semester</b>		<b>16</b>	<b>32</b>

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 Affairs  
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Dean of the Faculty  
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 Al-Shawkany

Dean of Development  
 Center & Quality  
 Assurance  
 Ass. Prof. Dr. Huda Al-  
 Emad



**II. Teaching strategies of the course:**

- Lectures
- Discussion and Dialogue
- Practical application (Clinic)
- Poultry farms visits.
- Clinical and field training.
- Simulation and mental offers
- Brain storm
- Self-education.

**II. Assessment Methods:**

No.	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Participation, quizzes and assignments	2-14	10	10%
2	Mid-Term Exam	8	10	10%
3	Mid-Term Practical Exam	8	10	10%
4	Final Practical Exam	13	10	10%
5	Oral Exam	13	5	5%
6	Final Exam	16	55	55%
<b>Total</b>			<b>100</b>	<b>100%</b>

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 Affairs  
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 Al-Shawkany

Dean of Development  
 Center & Quality  
 Assurance  
 Ass. Prof. Dr. Huda Al-  
 Emad

Rector of Sana'a University  
 Prof. Dr. Al-Qassim Mohammed Abbas



<b>V. Learning Resources:</b>	
<b>1- Required Textbook(s) ( maximum two ).</b>	
	<p>1-Diseases of Poultry (2020) David E. et al., Willy Blackwell, aaap, 14<sup>th</sup> edition</p> <p>2-Avian Diseases Manual, 2013, 7th Edition, AAAP publication. Jacksonville, FL</p>
<b>2- Recommended Readings and Reference Materials</b>	
	<p>2- Isolation, Identification and characterization of Avian Pathogens, (2008), 5<sup>th</sup> ed. AAAP publication. Jacksonville, FL</p> <p>1- Avian Histopathology, 2008, Ed. O. Fletcher, 3rd Ed, AAAP publication. Jacksonville, FL.</p>
<b>3- Electronic Materials and Web Sites etc.</b>	
	<p><a href="http://www.poultrydiseases.org">www.poultrydiseases.org</a></p> <p><a href="http://www.thepoultrysite.com">www.thepoultrysite.com</a></p> <p><a href="http://www.poultrymed.com">www.poultrymed.com</a></p>

<b>X. Course Policies:</b>	
<b>1</b>	<b>Class Attendance:</b> MANDATORY TO ATTEND ALL COURSE LECTURES
<b>2</b>	<b>Tardy:</b> Not allowed at all. Students must be in class 10 minutes prior to the beginning of lectures.
<b>3</b>	<b>Exam Attendance/Punctuality:</b> Attendance is mandatory; absence is accepted with valid excuse.
<b>4</b>	<b>Assignments &amp; Projects:</b> All assignments and projects are to be submitted on their due date. Any assignment turned in after the due date will not be accepted without valid and reasonable excuse.
<b>5</b>	<b>Cheating:</b> Not tolerated and may lead to EXPELLING the student from the program

Prepared by  
 Dr. Gameel AL- Maktari  
 Dr. Ghazi Zohair

Vice Dean For Quality  
 Affairs  
 Dr. Abdulraqeb Alshami

Dean of the Faculty  
 Ass. Prof. Dr. Abdu Alraoof  
 Al-Shawkany

Dean of Development  
 Center & Quality  
 Assurance  
 Ass. Prof. Dr. Huda Al-  
 Emad

Rector of Sana'a University  
 Prof. Dr. Al-Qassim Mohammed Abbas





<b>6</b>	<p><b>Plagiarism:</b>          Not tolerated AT ALL and may lead to EXPELLING the student from the program</p>
<b>7</b>	<p><b>Other policies:</b></p> <ol style="list-style-type: none"> <li>1.All devices must be on silent or at least on vibration during lectures/labs.</li> <li>2.Before any exam (written, practical, oral) student's identity will be checked (student's card, ID, passport). Without any of these documents, the student will not be allowed in the exam room.</li> <li>3.Any of type/ form of cheating is not allowed no matter what.</li> <li>4.Maintain silence during lectures and disturbance is not allowed.</li> </ol>

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رئيس الجامعة  
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة  
أ.د. هدى العماد

عميد الكلية  
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة  
د. عبدالرقيب الشامي