Faculty Of Veterinary Medicine

Veterinary Medicine Program









Course Specification of Poultry Management

I	I. Course Identification and General Information:							
1	Course Title:		Poultry Management					
2	Course Number & Code:		A	AP223				
			С.Н			Total		
3	Credit hours:	Theoretical	Practical	Training	Seminar	Total		
		2	1			3		
4	Study level/ semester at which this course is offered:	Second Year - Second Semester						
5	Pre –requisite (if any):		A	P222				
6	Co –requisite (if any):		1	None				
7	Program (s) in which the course is offered:	B.Sc., (Veterinary Medicine).						
8	Language of teaching the course:	English Language.						
9	Location of teaching the course:	Factuality of Vet Medicine.						
10	Prepared by:	Dr. Ghazi. A. Zohair						
10			Dr. Gameel	A. Al- Mak	tari			
11	Date of approval:							

II. Course description:

- Basic Information about Poultry Industry, terminology and classification of Poultry.
- Proper Poultry House Designing and Production Efficiency.
- Proper rearing and management of different types of Poultry.
- Environmental and Genetic Factors affecting Production efficiency.
- Artificial hatching and Hatcheries management.
- The role of strict biosecurity in preventing Infectious diseases.
- Marketing of poultry and poultry waste management.

Prepared by Dr. Ghazi. A. Zohair Dr. Gameel A. Al-Maktari Quality Assurance Unit Dr. Abdulraqeb Alshami

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Veterinary Medicine Program

Dr. Gameel A. Al-

Maktari









(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			nderstanding	
After	completing this program, students will be able to:	Afte	r completing this course, stud	dents 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-	Show understanding the bascience and their terminological	
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- Clarifies basic concepts, principles, and theories related to poultry production and management including (Husbandry, Welfare, Nutrition breeding and housing etc.).		
	Teaching And Assessment Method	ds F	or Achieving Learning	Outcomes:
	Alignment of Learning Outcomes of Knowledge an			
Cou	rse Intended Learning Outcomes (CILOs) in Knowledge and Understanding	Tea	ching strategies/methods to be used	Methods of assessmen
After	completing this course, students will be able to:		Lectures	■ Written Examination
a1-	Show understanding the basic principles of poultry science and management.	Brain stormingPractical application (FieldPractical		QuizzesContinuous questionEvaluation
a2-	Clarifies basic concepts, principles, and theories related to poultry production and management including (Husbandry, Welfare,			Practical exam.Reports.

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

Assurance Ass. Prof. Dr. Huda Al-

Emad

Al-Shawkany

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Nutrition breeding and Housing etc.).	Self-Education	
	Presentation Shows	
	Project (Feasibility Study)	

(B)	(B) Intellectual Skills:					
Align	ment of Course Intended Learning Outcomes (CILOs) to Prog	gram I	ntended Learning Outcomes (PIL	Os) in: Intellectual skills		
Pr	ogram Intended Learning Outcomes (Sub-	C	ourse Intended Learning			
1.0	PILOs) in Intellectual skills	A 01	Intellectual	1= 15		
After	completing this program, students will be able to:	Afte	r completing this course, stude	ents will be able to:		
B1-	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.	b1-	thinking skills in st	of baby chicks from		
В3-	Design appropriate nursing and treatment care plans for different animal diseases and determine prioritizing of therapeutic.	b2- Regulate management plans for any poultry production farm problem.				
	Teaching And Assessment Method	ls Fo	r Achieving Learning	Outcomes:		
Align	ment of Learning Outcomes of Intellectual Skills to	o Tea	ching Methods and Assessi	nent Methods:		
Co	ourse 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:	•]	Lectures	 Written Examination 		
b1-	Practice efficiently management of baby chicks from hatching till the marketing	• D	Discussion Dialogue and Inscribes	 Quizzes Continuous questions		
b2-	Regulate and creates management plans for any poultry farm problem.	 P (Fid P S S P 	crain storming cractical application celd work) coultry farm visits elf-Education cientific Visits cresentation Shows croject (Feasibility Study)	Evaluation • Practical exam • Reports		

Prepared by Dr. Ghazi. A. Zohair Dr. Gameel A. Al-Maktari Quality Assurance Unit Dr. Abdulraqeb Alshami Dean of the Faculty Ass. Prof. Dr. Abdu Alraoof Al-Shawkany

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(C)	(C) Professional and Practical Skills:					
Align	Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Professional and Practical Skills					
	Program Intended Learning Outcomes (Sub- PILOs) in Professional and Practical Skills Course Intended Learning Outcomes (CILOs) i Professional and Practical Skills					
After	completing this program, students will be able to:	After	completing this course, stu	idents will be able to:		
C1-	Accurately records a comprehensive pathological story of a sick animal including information on healthy behavior and the necessary checks.	c1- Evaluate Poultry production records.				
C2-	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.	Plan, evaluate and practicing disinfection and vaccination programs for commercial poultry beside design and monitor a biosecurity program for commercial and backyard poultry.				
	Teaching And Assessment Meth		Ü	O		
	ment of Learning Outcomes of Professional and Practic		·			
Co	ourse Intended Learning Outcomes (CILOs) in Professional and Practical Skills	Teac	to be used	Methods of assessment		
After	completing this course, students will be able to:		d visit and Practical k (Clinic)	Practical ExaminationWritten Examination		
c1 -	Evaluate and describe Poultry production records.	- Pro	oblem solving operative learning	 Oral Examination Reports Assessment		
c2-	Plan, evaluate and practicing disinfection and vaccination programs for commercial poultry beside design and monitor a biosecurity program for commercial and backyard poultry.	- Case study - Emulation and illustrative presentation		methods - Students Presentation - Performance Assessment - Performance Remark Achievement File		

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(D)	(D) General / Transferable Skills:					
A	lignment of Course Intended Learning Outcomes (CILOs) to Pro Transfer a	_		ILOs) in: General and		
Pro	gram Intended Learning Outcomes (PILOs) in General / Transferable skills	C	ourse Intended Learning General / Trans	` ` '		
After o	completing this program, students will be able to:	Afte	r completing this course, stu	dents will be able to:		
D1-	Communicates effectively with Professional colleagues and animal owners and expresses his ideas clearly and objectively.	d1- Communicate effectively with others including professional colleagues and poultry owners about poultry management, also signifies his opinion and ideas clearly and objectively.				
D4-	Works in normal conditions, crises and epidemics, alone and effectively within a medical team.	Work under normal circumstances a Different crises (work under pressure) a organize tasks and resources alone and with team work.				
	Teaching And Assessment Metho	ds F	or Achieving Learni	ng Outcomes:		
A	Alignment of Learning Outcomes of General and Tra			Assessment Methods:		
Co	urse Intended Learning Outcomes (CILOs) in General and Transferable Skills	Tea	ching strategies/methods to be used	Methods of assessment		
After	completing this course, students will be able to:		Research papers. eam work	–Participation.–Performance		
d1-	Communicate effectively with others including professional colleagues and poultry owners about poultry management, also signifies his opinion and ideas clearly and objectively. Work under normal circumstances and Different crises (work under pressure) and organize tasks and resources alone and within team work.		tablishment. oup working	evaluation. -Presentations. -Potency Achievement. -Surveillances and Monitoring. -Practical exam -Reports		

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IV. Course Content:

1 – Course Topics/Items:

a – Theoretical Aspect

	a – Theoretical Aspect				
Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	Introduction	a1, a2	 Basic Information about infrastructure of Poultry Industry. Situation and development of poultry industry in Yemen and its important role in national economy. 	1	2
2	Classification of poultry (Poultry breeds)	a1, a2	Terminology Different breeds and varieties of chickens and their description. Biologicals system of chickens.	2	4
3	The proper care and management rearing of Broilers.	a1, a2, b1, c1, c2, d2.	Poultry farms and houses. -The proper location of the farm. - Buildings and Premises. - Farms equipment. -Sanitation and disinfection. - Broiler chicks rearing - Feed management. - Vaccination and health management.	2	4
4	The proper care and management rearing of	a1, a2, b1, c1, c2, d2.	Poultry farms and housesThe proper location of the	2	4

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	layers.		farm Buildings and Premises Farms equipmentSanitation and disinfection Rearing - Feed management Vaccination and health management.		
5	Hatching eggs production, Hatchability and Hatchery management.	a1, a2, b1, c1, c2, d2.	 Factors effecting fertility and hatchability. Selection of eggs for table purpose and incubation. Natural and Artificial Incubation. Single and multistage incubators. Hatchery services and management. 	2	4
6	Biosecurity on poultry farms	a1, a2, b1, c1, c2, d2.	- Protective measures to minimize entry of infections in poultry farm premises, disinfectant pits, personnel management, restriction of movement etc.	1	2
8	Poultry wastes management (manure)	a1, a2, b1, c1, c2, d2.	 Letter materials Care management of disposable wastes and utilities of poultry manure. Potential for poultry litter used as fertilizers, recycling for livestock feeding and power generation. 	1	2
9	Health management of poultry (Some diseases related to faulty management).	a1, a2, b1, c1, c2, d2.	Factors affecting poultry heath.Some diseases related (due to faulty management).	1	2
10	Rearing of Turkey, Ducks		Turkey rearing, Ducks rearing,	1	2

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	and Geese.		Geese rearing		
14	Marketing of poultry products, Records keeping	a1, a2, b1, c1, c2, d2.	Marketing of eggs, marketing of meat, Importance and types of farm records.	1	2
Number of Weeks /and Units Per Semester				14	28

	b- Training Aspect:					
Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours		
1	Handling of poultry - Breeds of chickens (Demonstration and Description of different poultry breed and varieties).	a1, a2,c1,d2	1	2		
2	External anatomy (body parts) of the bird and Nomenclature.	a1, a2,c1,d2	1	2		
3	Reproductive system of chicken (Male and Female). Structure and composition of egg.	a1, a2,c1,d2	1	2		
4	Hatchery operation, Selection and care of hatching eggs and storage, eggs grading, fumigation-and candling, setting and hatching, Demonstration and management of incubators.	a1, a2, b1, c1, c2, d1, d2	2	4		
5	Sexing of chicks, brooding of chicks and hatchery equipment, feeders, water system	a1, a2, b1, c1, c2, d1, d2	1	2		
6	Poultry housing system types and layout plans for poultry farms of different size.	a1, a2, b1, c1, c2, d1, d2	1	2		
7	Visit to commercial poultry farms/videos show.	a1, a2, b1, c1, c2, d1, d2	1	2		
8	Visit to commercial poultry farms/ videos show.	a1, a2, b1, c1, c2, d1, d2	2	4		
9	Visits to broiler slaughtering house.	a1, a2, b1, c1, c2, d1, d2	1	2		

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10	Molting in chickens	a1, a2, b1, c1, c2, d1, d2	1	2
11	Waste management – Dead birds disposal.	a1, a2, b1, c1, c2, d1, d2	1	2
12	Record keeping of poultry farm	a1, a2, b1, c1, c2, d1, d2	1	2
Number of Weeks /and Units Per Semester			14	28

V. Teaching strategies of the course:

- Lectures
- Discussion
- Brain storming
- Problem solving
- Simulation Method and Practical presentation
- Field work- Farm visit Lab work.
- Tasks and Projects.
- Self-learning
- Cooperative Learning
 Exchanging of Information and Experiences between Colleagues.

3-Assessment Methods:

V	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		

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	Final Exam Total	16	55 100	55% 100%	All CILOs
5	Oral Exam	13	5	5%	All CILOs

VII. Students' Support:	
Office Hours/week	Other Procedures (if any)
. 4hrs/week	

VIII. Learning Resource (MLA style or APA style)S:

- 1- Required Textbook(s) (maximum two)
 - Nilotpal Ghosh and Rojarsh Samata;(2008): Manual on Avian production and management. 1st Edition, published by: International Book distributing Co (IBDC), India.
 - Donald D. Bell W. and D. Weaver, Jr. (2002) Chcken Meat and Egg Production. 5th Ed. Springer Science + Business Media, NEW YORK.
- 2- Recommended Readings and Reference Materials
 - د. سامي علام (2009): تربية الدواجن ورعايتها، مكتبة الأنجلوالمصريه. مصر -1
 - 2- Jon Moyle.; Basic Management of Poultry in Developing Communities. University of Maryland Extension.Jmoyle@umd.edu. (Electronic book- www.pdfdrive.com).
- **3-** Essential References
 - Shri Sanjay B. et al, (2014-15): Poultry Farm Manual, published by Ministry of Agriculture an Farmers Welfare, (India).
- 4- Electronic Materials and Web Sites etc.

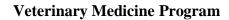
www.the poultry site.com; www.poultry med.org.; www.poultry diseases .net.

• Scientific Journals: Poultry Science Journal; Poultry Production Journal; British Poultry

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Science; Avian Pathology Journal; World Poultry Science; Egypt Poultry Science.
5- Other Learning Material:
- Poultry of Middle East and North Africa. A bimestrial technical poultry magazine
Edited by Middle East Agrifood Publishers, (MEAB). دواجن الشرق الاوسط وشمال افريقيا

X.	Course Policies:			
1	Class Attendance:			
	MANDATORY TO ATTEND ALL COURSE LECTURES			
2	Tardy:			
	Not allowed at all. Students must be in class 10 minutes prior to the beginning of lectures.			
3	Exam Attendance/Punctuality:			
	Attendance is mandatory; absence is accepted with valid excuse.			
4	Assignments & Projects:			
	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.			
5	Cheating:			
	Not tolerated and may lead to EXPELLING the student from the program			
6	Plagiarism:			
	Not tolerated AT ALL and may lead to EXPELLING the student from the program			
7	Other policies:			
	1. All devices must be on silent or at least on vibration during lectures/labs.			
	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.			
	3. Any of type/ form of cheating is not allowed no matter what.			
	4. Maintain silence during lectures and disturbance is not allowed.			

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Veterinary Medicine Program









Course Plan of Poultry Management

X Information about Faculty Member Responsible for the Course:							
Name of Faculty Member Dr. Ghazi. A. Zohair Dr. Gameel A. Al- Maktari Office Hours		S					
Location & Telephone No.	776024320 777710051	SAT	SUN	MON	TUE	WED	THU
E-mail	gzohair8@gmail.com maktary63@gmail.com	2		2			

KI. ((I. Course Identification and General Information:							
1-	Course Title:	Poultry Management						
2-	Course Number & Code:	AP223						
	Credit hours:		C.I	Н		Total		
3-		Th.	Seminar	Pr.	F. Tr.	Total		
		2		1		3		
4-	Study level/year at which this course is offered:	Second Year - Second Semester						
5-	Pre -requisite (if any):	AP222						
6- Co –requisite (if any): 7- Program (s) in which the course is offered B.Sc		None						
		B.Sc., (Veterinary Medicine).						
8-	Language of teaching the course:	English Language.						
9-	System of Study:	Regular / Semesters						
10-	Mode of delivery:	Lectures and Practical						
11-	Location of teaching the course: Factuality of Vet Medicine.							

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II. Course Description:

- Basic Information about Poultry Industry, terminology and classification of Poultry.
- Proper Poultry House Designing and Production Efficiency.
- Proper rearing and management of different types of Poultry.
- Environmental and Genetic Factors affecting Production efficiency.
- Artificial hatching and Hatcheries management.
- The role of strict biosecurity in preventing Infectious diseases.
- Marketing of poultry and poultry waste management.

II. Intended learning outcomes (ILOs) of the course:

After completing this course, students will be able to:

- a1- Show understanding the basic principles of poultry science and their terminology.
- a2- Clarifies basic concepts, principles, and theories related to poultry production and management including (Husbandry, Welfare, Nutrition breeding and housing etc.).
- b1- Practice efficiently management of baby chicks from hatching till the marketing
- b2- Regulate and creates management plans for any poultry farm problem.
- c1- Evaluate and describe Poultry production records.
- c2- Plan, evaluate and practicing disinfection and vaccination programs for commercial poultry beside design and monitor a biosecurity program for commercial and backyard poultry.
- d1- Communicate effectively with others including professional colleagues and poultry owners about poultry management, also signifies his opinion and ideas clearly and objectively.
- d2- Work under normal circumstances and Different crises (work under pressure) and organize tasks and resources alone and within team work.

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V. Course Content:

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours	
1	Introduction	W1	2	
2	Classification of poultry (Poultry breeds)	W2-w3	4	
3	The proper care and management rearing of Broilers.	W4-w5	4	
4	The proper care and management rearing of layers.	W6-w7	4	
5	Midterm Exam	W8	2	
6	Hatching eggs production, Hatchability and Hatchery management.	W9-10	4	
7	Biosecurity on poultry farms	W11	2	
9	Poultry wastes management (manure)	W12	2	
10	Health management of poultry (Some diseases related to faulty management).	W13	2	
11	Rearing of Turkey, Ducks and Geese.	W14	2	
12	Marketing of poultry products, Records keeping	W15	2	
13	Final Exam	W16	2	
	Number of Weeks /and Units Per Semester	16	32	

b- Training Aspect: Order Training Tasks Week Due Contact hours 1 Handling of poultry - Breeds of chickens (Demonstration and Description of different poultry breed and varieties). W1 2

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2	External anatomy (body parts) of the bird and Nomenclature.	W2	2
3	Reproductive system of chicken (Male and Female). Structure and composition of egg.	W3	2
4	Hatchery operation, Selection and care of hatching eggs and storage, eggs grading, fumigation-and candling, setting and hatching, Demonstration and management of incubators.	W4,5	4
5	Sexing of chicks, brooding of chicks and hatchery equipment, feeders, water system	W6	2
6	Poultry housing system types and layout plans for poultry farms of different size.	W7	2
7	Mid-Term Exam	W 8	2
8	Visit to commercial poultry farms/ videos show.	W 9	2
9	Visit to commercial poultry farms/ videos show.	W10,11	4
10	Visits to broiler slaughtering house.	W12	2
11	Molting in chickens	W13	2
12	Waste management – Dead birds disposal.	W14	2
13	Record keeping of poultry farm	W15	2
16	Final Exam	16	2
	Number of Weeks /and Units Per Semester	16	32

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V. Teaching strategies of the course:

- Lectures
- Discussion
- Brain storming
- Problem solving
- Simulation Method and Practical presentation
- Field work- Farm visit Lab work Tasks and Projects- Self-learning Cooperative Learning.

/I. 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%
	Total		100	100%

II. Learning Resources:

1- Required Textbook(s) (maximum two).

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- Donald D. Bell W. and D. Weaver, Jr. (2002) Chcken Meat and Egg Production. 5th Ed. Springer Science + Business Media, NEW YORK.

2- Essential References.

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3- Electronic Materials and Web Sites etc.

www.the poultry site.com; www.poultry med.org.; www.poultry diseases .net.

• Scientific Journals: Poultry Science Journal; Poultry Production Journal; British Poultry Science; Avian Pathology Journal; World Poultry Science; Egypt Poultry Science.

X.	Course Policies:
1	Class Attendance:
	MANDATORY TO ATTEND ALL COURSE LECTURES
2	Tardy:
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3	Exam Attendance/Punctuality:
	Attendance is mandatory; absence is accepted with valid excuse.
4	Assignments & Projects:
	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.
5	Cheating:
	Not tolerated and may lead to EXPELLING the student from the program
6	Plagiarism:
	Not tolerated AT ALL and may lead to EXPELLING the student from the program

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7 Other policies:

- 5. All devices must be on silent or at least on vibration during lectures/labs.
- 6. 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.
- 7. Any of type/ form of cheating is not allowed no matter what.
- 8. Maintain silence during lectures and disturbance is not allowed.

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