



الجمهورية اليمنية  
وزارة التعليم العالي والبحث العلمي  
جامعة صنعاء  
كلية الطب البيطري

## Course Specification of Poultry Management

I. Course Identification and General Information:					
1	Course Title:	Poultry Management			
2	Course Number & Code:	AP223			
3	Credit hours:	C.H			Total
		Theoretical	Practical	Training	
		2	1		3
4	Study level/ semester at which this course is offered:	Second Year - Second Semester			
5	Pre –requisite (if any):	AP222			
6	Co –requisite (if any):	None			
7	Program (s) in which the course is offered:	B.Sc., (Veterinary Medicine).			
8	Language teaching of the course:	English Language.			
9	Location of teaching the course:	Factuality of Vet Medicine.			
10	Prepared by:	Dr. Ghazi. A. Zohair Dr. Gameel A. Al- Maktari			
11	Date of approval:				

عميد مركز التطوير

وضمن الجودة  
أ.د. هدى العماد

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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.

## 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-	Show understanding the basic principles of poultry science and their terminology.
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.).

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## 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</li> <li>▪ Dialogue and Inscribes</li> <li>▪ Brain storming</li> <li>▪ Practical application (Field work - Clinic)</li> <li>▪ Poultry farm visits</li> <li>▪ Self-Education</li> <li>▪ Presentation Shows Project (Feasibility Study)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Written Examination</li> <li>▪ Quizzes</li> <li>▪ Continuous questions Evaluation</li> <li>▪ Practical exam.</li> <li>▪ Reports.</li> </ul>
a1-	Show understanding the basic principles of poultry science and management.		
a2-	Clarifies basic concepts, principles, and theories related to poultry production and management including (Husbandry, Welfare, Nutrition breeding and Housing etc.).		

## (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) in Intellectual Skills	
After completing this program, students will be able to:		After completing this course, students 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-	Competently practices analytical and thinking skills in studying and management problems of baby chick hatching till the marketing
B3-	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 Methods For Achieving Learning Outcomes:

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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:		<ul style="list-style-type: none"> <li>▪ Lectures</li> <li>▪ Discussion</li> <li>▪ Dialogue and Inquires</li> <li>▪ Brain storming</li> <li>▪ Practical application (Field work)</li> <li>▪ Poultry farm visits</li> <li>▪ Self-Education</li> <li>▪ Scientific Visits</li> <li>▪ Presentation Shows</li> <li>▪ Project (Feasibility Study)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Written Examination</li> <li>▪ Quizzes</li> <li>▪ Continuous Quality Evaluation</li> <li>▪ Practical examination</li> <li>▪ Reports</li> </ul>
b1-	Practice efficiently management of baby chicks from hatching till the marketing		
b2-	Regulate and creates management plans for any poultry farm problem.		

### (C) Professional and Practical Skills:

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) in Professional and Practical Skills	
After completing this program, students will be able to:		After completing this course, students 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.	c2-	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 Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of Professional and Practical Skills to Teaching and Assessment Methods:		
Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills	Teaching strategies/methods to be used	Methods of assessment

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After completing this course, students will be able to:		Field visit and Practical work (Clinic)	- Practical Examination
c1-	Evaluate and describe Poultry production records.	- Problem solving	- Written Examination
c2-	Plan, evaluate and practicing disinfection and vaccination programs for commercial poultry beside design and monitor a biosecurity program for commercial and backyard poultry.	- Cooperative learning - Case study - Emulation and illustrative presentation	- Oral Examination - Reports Assessment methods - Students Presentation - Performance Assessment - Performance Remark - Achievement File

### (D) General / Transferable Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **General / 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:	
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.	d2-	Work under normal circumstances and crises (work under pressure) and organize and resources alone and within team work

### 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:		- Research papers. - Team work establishment. - Group working	- Participative - Performance evaluation. - Presentation - Potency Achievement - Surveillance - Monitoring. - Practical examination
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		

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organize tasks and resources alone and within team work.	-Reports
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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	<ul style="list-style-type: none"> <li>Basic Information about infrastructure of Poultry Industry.</li> <li>Situation and development of poultry industry in Yemen and its important role in national economy.</li> </ul>	1	2
2	Classification of poultry (Poultry breeds)	a1, a2	<ul style="list-style-type: none"> <li>Terminology</li> <li>Different breeds and varieties of chickens and their description.</li> <li>Biologicals system of chickens.</li> </ul>	2	4
3	The proper care and management rearing of Broilers.	a1, a2, b1, c1, c2, d2.	<ul style="list-style-type: none"> <li>Poultry farms and houses.</li> <li>The proper location of the farm.</li> <li>Buildings and Premises.</li> <li>Farms equipment.</li> <li>Sanitation and disinfection.</li> <li>Broiler chicks rearing</li> <li>Feed management.</li> <li>Vaccination and health management.</li> </ul>	2	4

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4	<b>The proper care and management rearing of layers.</b>	a1, a2, b1, c1, c2, d2.	Poultry farms and houses. -The proper location of the farm. - Buildings and Premises. - Farms equipment. -Sanitation and disinfection. - Rearing - Feed management. - Vaccination and health management.	2	4
5	<b>Hatching eggs production, Hatchability and Hatchery management.</b>	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	<b>Biosecurity on poultry farms</b>	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	<b>Poultry wastes management (manure)</b>	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,	1	2

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			recycling for livestock feeding and power generation.		
9	Health management of poultry (Some diseases related to faulty management).	a1, a2, b1, c1, c2, d2.	- Factors affecting poultry health. - Some diseases related (due to faulty management).	1	2
10	Rearing of Turkey, Ducks and Geese.		Turkey rearing, Ducks rearing, Geese rearing	1	2
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
<b>Number of Weeks /and Units Per Semester</b>				<b>14</b>	<b>28</b>

<b>b- Training Aspect:</b>				
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

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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
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:

#### 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)
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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>	

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 )	
	<ul style="list-style-type: none"><li>• Nilotpal Ghosh and Rojarsh Samata;(2008): Manual on Avian production and management. 1<sup>st</sup> Edition, published by: International Book distributing Co (IBDC), India.</li><li>• Donald D. Bell W. and D. Weaver, Jr. (2002) Chcken Meat and Egg Production. 5<sup>th</sup> Ed. Springer Science + Business Media, NEW YORK.</li></ul>
2- Recommended Readings and Reference Materials	
	<ol style="list-style-type: none"><li>1- د. سامي علام (٢٠٠٩): تربية الدواجن ورعايتها، مكتبة الأنجلوالمصريه. مصر</li><li>2- Jon Moyle.; Basic Management of Poultry in Developing Communities. University of Maryland <a href="mailto:Extension.Jmoyle@umd.edu">Extension.Jmoyle@umd.edu</a>. (<a href="http://www.pdfdrive.com">Electronic book- www.pdfdrive .com</a>).</li></ol>
3- Essential References	
	<ul style="list-style-type: none"><li>• Shri Sanjay B. et al.,(2014-15): Poultry Farm Manual, published by Minis of Agriculture and Farmers Welfare, (India).</li></ul>
4- Electronic Materials and Web Sites etc.	

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<p><a href="http://www.the.poultry.site.com">www.the poultry site.com</a>; <a href="http://www.poultry med.org">www.poultry med.org</a>; <a href="http://www.poultry diseases .net">www.poultry diseases .net</a>.</p> <ul style="list-style-type: none"><li>Scientific Journals: Poultry Science Journal; Poultry Production Journal; British Poultry Science; Avian Pathology Journal; World Poultry Science; Egypt Poultry Science.</li></ul>
<b>5- Other Learning Material:</b>
- Poultry of Middle East and North Africa. A bimestrial technical poultry magaz Edited by Middle East Agrifood Publishers, (MEAB). اجن الشرق الاوسط وشمال افريقيا.

<b>X. Course Policies:</b>	
1	<b>Class Attendance:</b> MANDATORY TO ATTEND ALL COURSE LECTURES
2	<b>Tardy:</b> Not allowed at all. Students must be in class 10 minutes prior to the beginning of lectures.
3	<b>Exam Attendance/Punctuality:</b> Attendance is mandatory; absence is accepted with valid excuse.
4	<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.
5	<b>Cheating:</b> Not tolerated and may lead to EXPELLING the student from the program
6	<b>Plagiarism:</b> Not tolerated AT ALL and may lead to EXPELLING the student from the program
7	<b>Other policies:</b> <ol style="list-style-type: none"><li>All devices must be on silent or at least on vibration during lectures/labs.</li><li>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>Any of type/ form of cheating is not allowed no matter what.</li><li>Maintain silence during lectures and disturbance is not allowed.</li></ol>

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## 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					
Location & Telephone No.	776024320 777710051		SAT	SUN	MON	TUE	WED	THU
E-mail	gzohair8@gmail.com <a href="mailto:maktary63@gmail.com">maktary63@gmail.com</a>		2		2			

XI. Course Identification and General Information:						
1	Course Title:	Poultry Management				
2-	Course Number & Code:	AP223				
3-	Credit hours:	C.H				Total
		Th.	Seminar	Pr.	F. Tr.	
		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):	None				
7-	Program (s) in which the course is offered	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				

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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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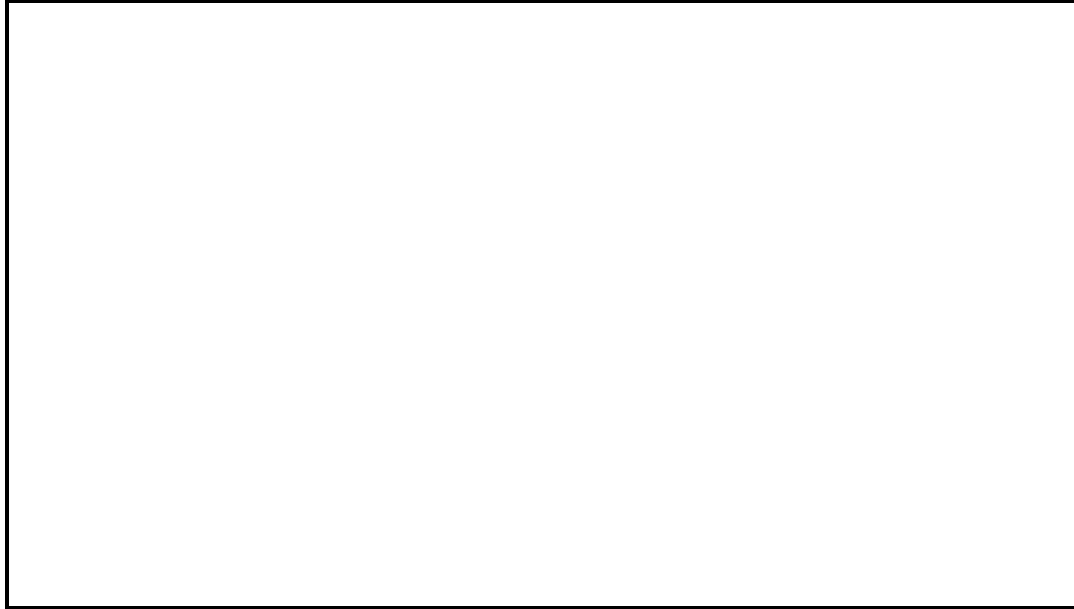
د. عبدالرقيب الشامي

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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

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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
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.	W9	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

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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

#### 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

#### VI. 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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	<ul style="list-style-type: none"><li>• Nilotpal Ghosh and Rojarsh Samata;(2008): Manual on Avian production and management. 1<sup>st</sup> Edition, published by: International Book distributing Co (IBDC), India.</li><li>• Donald D. Bell W. and D. Weaver, Jr. (2002) Chcken Meat and Egg Production. 5<sup>th</sup> Ed. Springer Science + Business Media, NEW YORK.</li></ul>
<b>2- Essential References.</b>	
	<ul style="list-style-type: none"><li>• Shri Sanjay.B ,et al.,(2014-15): Poultry Farm Manual. published by Ministry of Agriculture and Farmers Welfare, (India).</li></ul>
<b>3- Electronic Materials and Web Sites etc.</b>	
	<p><a href="http://www.the.poultry.site.com">www.the.poultry.site.com</a>; <a href="http://www.poultry.med.org">www.poultry.med.org</a>; <a href="http://www.poultry.diseases.net">www.poultry.diseases.net</a>.</p> <ul style="list-style-type: none"><li>• Scientific Journals: Poultry Science Journal; Poultry Production Journal; British Poultry Science; Avian Pathology Journal; World Poultry Science; Egypt Poultry Science.</li></ul>

<b>X. Course Policies:</b>	
1	<b>Class Attendance:</b> MANDATORY TO ATTEND ALL COURSE LECTURES
2	<b>Tardy:</b> Not allowed at all. Students must be in class 10 minutes prior to the beginning of lectures.
3	<b>Exam Attendance/Punctuality:</b> Attendance is mandatory; absence is accepted with valid excuse.
4	<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.
5	<b>Cheating:</b> Not tolerated and may lead to EXPELLING the student from the program
6	<b>Plagiarism:</b> Not tolerated AT ALL and may lead to EXPELLING the student from the program

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7	<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>
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