

Ministry of Higher Education and Scientific



**Department of Animal Resources
College of Agriculture**

University of Salahaddin- Erbil

Subject: PRACTICAL POULTRY MANAGEMENT

Course Book – (3^r grade)

Lecturer's name,

MSc. Lina salah Mahdi - Assist- Lecturer

MSc. Ayhan jalal- Assist- lecturer

Academic Year: 2022/2023

Course Book

1. Course	POULTRY MANAGEMENT
2. Lecturer in	
3. Department/ College	Animal Resources Department / collage of and engeneering sceince .
4. Contact	e- : alaa.mustafa@su.edu.krd Tel: 07504967737 e-mail:
5. Time (in hours) per	Practical: 3
6. Office hours	5 day a week
7. Course code	
8. Teacher's academic	(Alaa abdulmajeed) I got BSc. At 2006 - 2007 and that I stated working in Agriculture college from then I got MSc. In 2013,and now im countinuing as ph.D student since (Ayhan jalal) I got Bsc. In 2000/2001 and after that I started working in agriculture college ,then I got Msc. In 2015, now an assistant lecturer in animal resources department.
9. Keywords	
10. Course overview:	<p>Within great changes and development which occurs in the agriculture also big come in to protect and keep the product safe and healthy , so the role of good managements appear to reach the highest point of performance and health of birds.</p> <p>Since poultry product becomes one of the great source of food and cheapest origin protein for human being and even poultry products (meat, eggs) are highly nutrition, palatable and digestible also can be used in many appetizing ways, so care all conditions inside poultry houses and operating good management become so to study in details to the</p>
11. Course objective:	The poultry industry just keeps growing and increasing year by year, for this reason important to our students to learn more about poultry management in all stages of

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rearing including parent stock, layer breed, broiler breed and even backyard birds
maintain good management so prevent stresses inside poultry houses and occurrence
the some diseases which related with bad

12. Student's obligation

The role of students in the class should attend to the class weekly and I will put points on it, every week I will do quiz for them and students participate in the class is important

13. Forms of teaching

I use the projector to display my objectives by power point, sometimes we need to some information on the white board to clarify it. I will give all my objectives on the paper to my

14. Assessment scheme

Each Exam after five
Mark Distribution:
Monthly Exams, 15%+
Quiz and report and other activites,

15. Student learning outcome:

After finish these courses the students will be describes different types of poultry and equipments that use in it with their different characteristics, which make them suitable for different purposes. The students will be introduce to the basic principles preparing the house and choosing a good place and right direction for it. Give a outline of principles of, management. Explain the poultry

16. Course Reading List and

- 1 ▪ Singh, R.A.(2004). Poultry production. 3th edition. Kalyani publishers, New
- 2 Rose, S.P.(2001). Principles of poultry science. CABI
- 3 Internet sites:
www.poltry.com
www.syriavet.com
www.thepoultrysite.com
www.kananaonline.co

17. The

**Lecturer's
nam**

Lecturer's name

18. Practical Topics (If there is

Introduction about poultry farms and different types of houses.

Aim of subject: to provide complete information about poultry

Ayhan J. Khalil

ex: (3 hrs)

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<p>parts and all types of poultry Information which get from this How we define poultry What are differences between poultry farm and poultry Types of poultry house. Choose the correct type of poultry house according to environment and weather condition of specific</p>	
<p>Design and distances of poultry Aim of subject: to provide complete information about the and distances of poultry How we design the poultry houses What are the distances that depended on the number of (length, width and high) of poultry</p>	<p>Ayhan J. Khalil ex: (3 hrs)</p>
<p>Litter. Aim of subject: define the litter and its composition specification of each Information which gets from this What is the purpose of using the The main types of litter and materials which introduce The reason of using litter on the floor of the poultry How we choose the perfect type of litter according to condition. How to act to decrease additional need for litter in rearing period keep it dry so prevent the production of ammonia and which lead to the occurrence of some diseases like coccidiosis dermatitis ...etc.</p>	<p>Ayhan J. Khalil ex: (3 hrs)</p>
<p>Nests. Aim of subject: definition of nests and we must use them finally different types. Information which gets from this What are nests? Why there use necessary for layer Types of nests.</p>	<p>Ayhan J. Khalil ex: (3 hrs)</p>
<p>Roosts. Aim of subject: what we main about roosts and their Information which gets from this How we define the roosts.</p>	<p>Ayhan J. Khalil ex: (3 hrs)</p>

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<p>From what made the How put the roosts in poultry houses and even in backyard What are the benefits from using</p>	
<p>Heating System Aim of subject: Heating poultry houses during cold season different system. Information which gets from this Define heating system. Take acknowledge about different system of Advantages and disadvantages of each How choose the correct system, which fits owner finance and condition.</p>	<p>Ayhan J. Khalil ex: (3 hrs)</p>
<p>Feeders and Drinkers Aim of subject: Important of these equipment's and Information which get from this What we mean about manual feeder and automatic Different types of each one and which prefer than What we mean about Different types of drinkers, which system the</p>	<p>Ayhan J. Khalil ex: (3 hrs)</p>
<p>Visiting and Working in our poultry houses in the college's</p>	<p>Ayhan J. Khalil ex: (3 hrs)</p>
<p>Cooling system Aim of subject: how uses the perfect system for cooling houses to engorge bird for better Information which gets from this General definition of cooling Types of cooling system. Advantages and disadvantages of each type of Cooling system by Aim of subject: Cooling poultry hoses by the evaporative method tow way. Information which gets from this Definition of evaporation Defferent types of the evaporating system which Cooling system by evaporating along the house from one Cooling system by evaporating from the center of the Cooling system by evaporating from one side of the Fogging cooling system and positive cooling Aim of subject: Definition of fogging cooling system positive</p>	<p>Ayhan J. Khalil ex: (3 hrs)</p>

<p>system. Information which get from this General definition of both Advantages and disadvantages of each</p>	<p>MSc. Lina salah Mahdi</p>
<p>Ventilation system. Aim of subject: Choosing the perfect way of ventilation which fit design of the poultry Information which gets from this Why ventilation important in poultry How to put the fans which fit the environmental condition and of the house.</p>	
<p>Measuring ventilation requirement in poultry Aim of subject: How can measure the amount of air need by inside the house. Information which gets from this How calculate amount of air need by bird according their Put right number of fans.</p>	<p>(3 hrs)</p>
<p>Types of ventilation Aim of subject: Knowledge about ways and types of Information which gets from this Natural ventilation way. Artificial ventilation</p>	<p>MSc. Lina salah Mahdi</p>
<p>How many hours required in each system and the types of light system.</p>	<p>ex: (3 hrs)</p>
<p>light program is another important management factor like temperature, environmental quality, ventilation, humidity which have a role in monitoring production of poultry. Photo period Benefits of darkness exposure Factors to take into account in lighting programs Light management.</p>	<p>MSc. Lina salah Mahdi</p>
<p>Aim of subject: explaining some important process during poultry management like; stocking density anf sex separationg system 1- Space: density of birds per unit area</p>	

<p>Stocking density of bird; defined as the number of birds unit area. Or weight (kg) per floor surface area ²)</p> <p>-</p> <p>Visiting the broiler breed house to see a type of cooling system how put the fans by correct way and</p>	<p>ex: (3 hrs)</p> <p>MSc. Lina salah Mahdi</p> <p>ex: (3 hrs)</p> <p>MSc. Lina salah Mahdi</p>
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19. Examinations:

Q1- what is the Types of poultry

Q2- choose the right

- consist from one big hall, control automatic feeder ,electric ,light and fans. farm , Poultry farm)

Q3-what is the aims of using the following in poultry

- Litter
- Nests
- Roosts

Q4- how many types of nests we have and what is the purpose from using of each

Q5- what are the benefits from using litter in poultry house

Q6- how many types of manual feeders we have ,which one you prefer and

Q7- answer by (T) OR (F)

- Incubators 150 cm in diameter are used to heat 1500
- Used lamps infrared to heat a small number of

Q8- how many types of cooling system we

Q9- what are the advantages of fogging system of

Q10- Solution this Example: - Hall its length 40 m and width 10m and height 3 which contains broiler, occupant space 15 chickens so it is 6000 chicken in the hall, note that the maximum weight of them 1.5 kg per bird . How can ventilate hall? How many fans that required?

If you know following (Number of times of change air in summer = 30 times , The of the fan is 4000 per m³ / hour , Average kg of body weight of air = 4 m³ /

Solution:-

The first method :by estimating the number of times of change air in the

The size of the hall = length * width *

$$40 * 10 * 3 = 1200 \text{ m}^3$$

Number of times of change air in summer = 30 times (according to

The amount of air that necessary to change each hour = the size of the hall * The of times of air change

$$1200 * 30 = 36,000 \text{ M}^3$$

The number of required fans = The amount of air that necessary to change each hour fan's power

$$36000 \div 4000 \text{ m}^3 / \text{h} = 9$$

$$36000 \div 6000 \text{ m}^3 / \text{h} = 6$$

The second method: assessing the needs of each kilogram body weight of fresh

Maximum weight is in the hall = 1.5 * 6000 kg = 9000 kg body

Average kg of body weight of air = 4 m³ / hour (according to the

Total amount of renewal air = 9000 * 4 = 36 000 M³ /

Accordingly, the numbers of fans

$$36000 \div 4000 \text{ m}^3 / \text{h} = 9$$

$$36000 \div 6000 \text{ m}^3 / \text{h} = 6$$

behaviour in response to reduced day

20. Extra notes:

Here the lecturer shall write any note or comment that is not covered in this template he/she wishes to enrich the course book with his/her valuable

21. Peer review

پہنچاؤ و نون مودى دا وھل

This course book has to be reviewed and signed by a peer. The peer approves the of your course book by writing few sentences in this
(A peer is person who has enough knowledge about the subject you are teaching, has to be a professor, assistant professor, a lecturer or an expert in the field of

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subject)

ئىم كۆرسىتىش ۋە دەپتار ئىشلىرىنى داۋاملاشتۇرۇشنى تەمىنلەش ۋە ئىشلىرىنى داۋاملاشتۇرۇشنى تەمىنلەش ۋە ئىشلىرىنى داۋاملاشتۇرۇشنى تەمىنلەش
چەت ئەلدىن كەلگۈچى ئوقۇتقۇچىلارنى تەكشۈرۈش ۋە ئىشلىرىنى داۋاملاشتۇرۇشنى تەمىنلەش ۋە ئىشلىرىنى داۋاملاشتۇرۇشنى تەمىنلەش
ھاۋا ئۆلچەمىگە كەلتۈرۈش ۋە ئىشلىرىنى داۋاملاشتۇرۇشنى تەمىنلەش ۋە ئىشلىرىنى داۋاملاشتۇرۇشنى تەمىنلەش.