



**Department of Animal Resource**

**College of Agriculture Engineering Sciences**

**Salahaddin University**

**Subject: Poultry Behaviour and Welfare**

**Course Book – (Second Year)**

**Lecturer's name (Theory) Karwan Y. Kareem (PhD)**

Mahbuba Abdulghani (PhD)

**Lecturer's name (Practical) Shireen Dh. Mohammad (MSc)**

**Academic Year: 2022/2023**

## \*Course Book

<b>1. Course name</b>	<b>Spring semester</b>
<b>2. Lecturer in charge</b>	<b>Asst. Prof. Dr Karwan Y. Kareem Prof. Dr. Mahbuba Abdulghani Shireen Dhahir Mohammad</b>
<b>3. Department/ College</b>	<b>Animal Resource Department / Agriculture College</b>
<b>4. Contact</b>	<b>e-mail: <a href="mailto:karwanysn@gmail.com">karwanysn@gmail.com</a> Tel: (optional) 07504538952 e-mail: asrr3451@gmail.com Tel: 07504478072</b>
<b>5. Time (in hours) per week</b>	<b>Theory: 2 hours    Practic: 3 hours</b>
<b>6. Office hours</b>	<b>5 days a week</b>
<b>7. Course code</b>	<b>--</b>
<b>8. Teacher's academic profile</b>	<b>Dr Karwan Yaseen- BSc. in Animal Resource Dept. (2005)</b> <b>- MSc. in Poultry Management (2010)</b> <b>- PhD in Poultry production (2016)</b>  <b>Shireen Dhahir { Bsc. in Animal Resource Dept. (2008)</b> <b>{ Msc. in Poultry Production (2015)</b>
<b>9. Keywords</b>	
<b>10. Course overview:</b>  <p>Studying poultry behaviour and welfare is one of the most important courses in animal science. Students should study this course to obtain information about beginning of poultry production and how chicken production started and changed to industry. To know the behaviour's bird so as to knowing how to deal with them and improve production....etc. Moreover, to know about link of technology with production and how technology will lead to improve poultry production. After taking this course students will get information about poultry carcass and the factors affecting meat quality and carcass quality. Furthermore, getting good knowledge about egg production and the new strategies for improving egg production. To achieve information about production system for laying hens and broiler and risk of human pathogens. In addition, getting knowledge in welfare and poultry's behaviour.</p> <p>After finishing this course, students could get information about improving poultry production and collecting information about how to deal with animals then they could become a supervisor in many big projects.</p>	
<b>11. Course objective:</b>  <p>The objective of this course to be familiarized to poultry industry, modern production of meat and vertical integration. To know the poultry carcass and factors affecting meat quality. To get information about technology and production as well as technology and poultry welfare, automation in processing plants, automation in cutting and deboning. In addition, to provide</p>	

information about formation of the egg and yields of egg components.

## 12. Student's obligation

All students should attend class weekly and points will be on it, every week they will do quiz and also encourage all students to participate by giving them questions and giving opportunity to all of them.

## 13. Forms of teaching

Projector will be used to display my objectives by PowerPoint; sometimes we need to write some information on white board to clarify it. All objectives will be given to students on word paper.

## 14. Assessment scheme

First Exam after five lectures

Second Exam after ten lectures.

Mark Distribution:

Monthly Exam 40% (Theoretical 25% + Practical 15%)

Final Exam 60% (Theoretical 40% + Practical 20%)

Final Mark 100%

<b>Practical part</b>	<b><u>Exam</u></b>	<b><u>Marks/Exam/Semester</u></b>
<b>Assessment 1</b>	Class tests	5
<b>Assessment 2</b>	Written Mid-term	10
<b>Assessment 3</b>	Written Final-term	20
<b>Total Marks/ semester</b>		<b>35</b>

## 15. Student learning outcome:

After finishing this course students will be introduced to the importance of poultry production and poultry industry. They will be got information about poultry carcass and carcass yield, carcass grading as well, so as to know what they should do if they supervise poultry farm and how they prepare good carcass to consumer. Inform student about new technologies which they use in poultry industry and how they lead to improve poultry production. After getting that information from this course, students will be got principal of rearing livestock and even can supervise small farm.

## 16. Course Reading List and References:

▪ Key references:

- Glos, K. (2011). Humane and healthy poultry production. A manual for organic growers. Chelsea Green Publishing Company. United State of America.
- Louis M. Hurd (2003). Modern Poultry Farming. Greenworld publishers 8/217, Indira Nagar. India

- Gunter Heinz and Peter Hautzinger (2007). Meat Processing Technology For Small- To Medium-Scale Producers. Food and Agriculture Organization Of The United Nations Regional Office For Asia and The Pacific. Bangkok.
- Mead, G. C. (2004). Poultry meat processing and quality. Published by Woodhead Publishing Limited Abington Hall, Abington Cambridge CB1 6AH. England
- Rose S. P. (1997). Principles of Poultry Science. Harper Adams Agricultural College, Shropshire, UK.

<b>17. The Topics:</b>	<b>Lecturer's name</b>
<b>First week: Animal Behaviour importance</b>	Asst. Prof. Dr. Karwan Yaseen Kareem
<b>Second week: General behaviour</b>	
<b>Third week: Social behaviour</b>	
<b>Fourth week: Poultry welfare in developing country</b>	
<b>Fifth week: Welfare principles and criteria as defined by Welfare Quality</b>	
<b>Sixth week: Factors governing behavior responses</b>	
<b>Seventh week: Reproduction behavior</b>	
<b>Eighth week: Non-adaptive or displacement behavior</b>	
<b>Ninth week: Protein and poultry meat quality</b>	
<b>Tenth week: Behavioural Problem</b>	

## Question Bank

### 19. Examinations:

**1. Compositional:** In this type of exam the questions usually starts with Explain how, What are the reasons for...?, Why...?, How....?

With their typical answers

Examples should be provided

### 2. True or false type of exams:

In this type of exam a short sentence about a specific subject will be provided, and then students will comment on the trueness or falseness of this particular sentence. Examples should be provided

### 3. Multiple choices:

In this type of exam there will be a number of phrases next or below a statement, students will match the correct phrase. Examples should be provided.

### 20. Extra notes:

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

### 21. Peer review

### پیداچوونهوهی هاوهل

This course book has to be reviewed and signed by a peer. The peer approves the contents of your course book by writing few sentences in this section.

(A peer is person who has enough knowledge about the subject you are teaching, he/she has to be a professor, assistant professor, a lecturer or an expert in the field of your subject).

نهم کورسبووکه دهبيت له لايمن هاوهلنکی نهکادیمیوه سیر بکريت و ناوهړوکی بابتهکانی کورسکه پسمند بکات و جند ووشیهک بنووسیت لهسر شیاوی ناوهړوکی کورسکه و واژووی لهسر بکات.  
هاوهل نهو کهسیه که زانیاری هبیت لهسر کورسکه و دهبيت پلهی زانستی له ماموستا کهمتر نهبيت.