



Jordan University of Science and Technology
Faculty of Agriculture
Animal Production Department

AP315 Table And Hatchery Egg Production

First Semester 2022-2023

Course Catalog

3 Credit Hours. The poultry industry. Anatomy, physiology, and breeds of layers/breeders. Principles of poultry breeding, nutrition, brooding, and rearing. Housing and equipment. Incubation and hatchery management, control of diseases and parasites, marketing. (Prerequisite: AP 232)

Text Book

| | |
|--------------------------|--|
| Title | Commercial Chicken Meat and Egg Production |
| Author(s) | D. D. Bell and W. D. Weaver, Jr. |
| Edition | 5th Edition |
| Short Name | Ref-1 |
| Other Information | |

Course References

| Short name | Book name | Author(s) | Edition | Other Information |
|------------|----------------------------|-----------------------------|-------------|-------------------|
| Ref-2 | Poultry Science | M. E. Ensminger | 3rd Edition | |
| Ref-3 | Broiler Breeder Production | S. Leeson and J. D. Summers | 1st Edition | |

Instructor

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| Name | Dr. Basheer Nusairat |
| Office Location | - |
| Office Hours | Sun : 12:30 - 14:00 Mon : 10:00 - 11:30 Tue : 09:00 - 10:30 Wed : 11:00 - 12:30 |
| Email | bmnusairat@just.edu.jo |

| Class Schedule & Room |
|---|
| Section 1: Lecture Time: Sun, Tue : 11:30 - 12:30 Room: C5024 |

| Prerequisites | | |
|----------------------|-------------------------|--------------------------|
| Line Number | Course Name | Prerequisite Type |
| 612320 | AP232 Feeds And Feeding | Prerequisite / Study |

| Tentative List of Topics Covered | | |
|---|---|--|
| Weeks | Topic | References |
| Week 1 | Introduction to Layer Production: Modern Breeds of Egg Industry Worlds?, Commercial Egg Industry, and Table Egg Industry in Jordan | Other information from poultry industry in Jordan From Ref-1 |
| Weeks 2, 3 | Egg Formation and Anatomy | From Ref-1 , From Ref-2 |
| Weeks 4, 5, 6 | Practices During Rearing Period: Housing & Equipment, Brooding Systems, Lighting Program, Beak trimming, Nutrient Requirement and Feeding Program, Development and Body Weight Monitoring, and Transfer to Laying House | From Ref-1 , From Ref-2 |
| Weeks 7, 8, 9 | Practices During Production Period: Preparation of Laying House, Nests and Stocking Density, Lighting System, Nutrient Requirement and Feeding Program, Egg-Production and Mortality Monitoring, Laying Performance and Record Keeping, and Molting | From Ref-1 , Other source of info from internet From Ref-2 |
| Weeks 10, 11 | Parent-Stock Production: Monitoring Poultry Breeder Practices, Feeding Management of Male and Female Breeder, Reproduction Management of Male and Female Breeder, Nutrient Requirement during rearing and production periods, Egg-Weight and Feed Control, and Practices of Hatching Eggs on Farm | From Ref-2 , From Ref-3 |
| Weeks 12, 13 | Hatching Eggs: Embryo Development Process, Natural and Artificial Hatchery, Biosecurity and Sanitation Practices, Handling Hatching Eggs, Setter Kinds and Conditions, Candling and Transfer, Factor Affecting Hatchability, Hatcher Conditions, and Breakout Analysis | From Ref-2 , From Ref-3 |
| Week 14 | Biosecurity and Health Care: Protective Measure in Laying Farms: Common Poultry Diseases: and Vaccination Schedule for Laying Hens | From Ref-2 |
| Week 15 | Spent Laying Hen Management | From Ref-1 , From Ref-2 |
| Week 16 | Egg Processing | From Ref-2 |

| Mapping of Course Outcomes to Program Student Outcomes | Course Outcome Weight (Out of 100%) | Assessment method |
|--|-------------------------------------|-------------------------|
| Understand the purpose of growing layers and how market performs [1SLO 1] | 10% | First Exam |
| Understand the anatomy and different systems of the layers [1SLO 2] | 10% | First Exam |
| Understand the process of egg formation [1SLO 2] | 20% | First Exam, Second Exam |
| Understand basics of poultry nutrition and digestion [1SLO 2] | 15% | Second Exam |
| Know the basics needed for managing laying hen houses [1SLO 3, 1SLO 4] | 25% | Second Exam |
| Knowing basics related to egg processing and health care of laying hens [1SLO 2, 1SLO 3] | 20% | |

| Relationship to Program Student Outcomes (Out of 100%) | | | |
|--|-------|-------|-------|
| SLO 1 | SLO 2 | SLO 3 | SLO 4 |
| 10 | 55 | 22.5 | 12.5 |

| Evaluation | |
|-----------------|--------|
| Assessment Tool | Weight |
| Final Exam | 40% |
| First Exam | 30% |
| Second Exam | 30% |

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