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| 1 | Course title | Principles of Animal Production |
| 2 | Course number | 0602101 |
| 3 | Credit hours | 3 |
| | Contact hours (theory, practical) | (3,0) |
| 4 | Prerequisites/corequisites | General Biology 1 (304101) |
| 5 | Program title | B.Sc. Animal Production |
| 6 | Program code | 602 |
| 7 | Awarding institution | The University of Jordan |
| 8 | School | Agriculture |
| 9 | Department | Animal Production |
| 10 | Course level | 1 st year |
| 11 | Year of study and semester (s) | 2 nd semester 2021/2022 |
| 12 | Other department (s) involved in teaching the course | None |
| 13 | Main teaching language | English |
| 14 | Delivery method | <input checked="" type="checkbox"/> Face to face learning <input type="checkbox"/> Blended <input type="checkbox"/> Fully online |
| 15 | Online platforms(s) | <input checked="" type="checkbox"/> Moodle <input checked="" type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others..... |
| 16 | Issuing/Revision Date | 27/02/2022 |

17. Course Coordinator:

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|---|---|
| Name: Dr. Rabie Irshaid | Contact hours: 11.30 – 16.00 (Sun, Tue, Thu), Students |
| Office number: 2 - Green house | are also welcomed at any time but they are encouraged to |
| Email: <u>r.irshaid@ju.edu.jo</u> | schedule meetings with me a few hours or 1-2 days in |
| Phone number: 22418 | advance. |

18. Other instructors:

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| Name: |
| Office number: |
| Phone number: |
| Email: |
| Contact hours: |

19. Course Description:

Introduction about farm animals, breeds of ruminants (cattle, sheep, goats) and poultry, products of farm animals, basic concepts in animal breeding, physiology of digestion and reproduction, importance of nutrients, husbandry of farm animals, livestock sector in Jordan.

20. Course aims and outcomes:

A- Aims:

The purpose of this course is to establish an understanding of the importance of animal production as one of the major fields of agriculture production. It focuses on the subjects, which enrich information about farm animals that leads to increased animal production of meat, milk, and eggs to provide animal protein for human consumption.

B- Students Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

| Course SLOs | Program ILOs* | | | | | | | |
|---|---------------|---------|---------|---------|---------|---------|---------|---------|
| | ILO (1) | ILO (2) | ILO (3) | ILO (4) | ILO (5) | ILO (6) | ILO (7) | ILO (8) |
| (1) comprehend livestock and poultry terminology and various breeds' characteristics. | X | | | | | | | |
| (2) know the importance of livestock and poultry products and by-products to humankind, the agricultural sector, and the economy. | X | | | | | | | |
| (3) understand the basics of genetic improvement. | X | | | | | | | |
| (4) understand the basics of anatomy and physiology of reproductive systems. | X | | | | | | | |
| (5) understand the basics of anatomy and physiology of digestive systems. | X | | | | | | | |
| (6) understand the basics of nutrition, feed components, and feed evaluation methods. | X | | | | | | | |
| (7) compare similarities and differences between poultry and livestock production and their products and by-products. | X | | | | | | | |

*** Program ILOs:**

ILO (1): Demonstrate a deep understanding of the basic principles in the various areas of livestock production; including nutrition, physiology, genetics, health and management.

ILO (2): Apply the acquired knowledge in various areas of livestock production.

ILO (3): Utilize critical thinking and logical reasoning in addressing issues related to livestock production.

ILO (4): Communicate effectively with a wide range of related stakeholders and provide appropriate extension services.

ILO (5): Apply the principles of public safety and environmental protection.

ILO (6): Acquire and apply practical skills along with keeping up with recent advances in livestock production.

ILO (7): Identify basic principles of research methodology and evidence-based decision making.

ILO (8): Abide by the professional, ethical and legal considerations relevant to the livestock production.

21. Topic Outline and Schedule:

| Week | Lecture | Topic | Intended Learning Outcome | Learning Methods (Face to Face/Blended / Fully Online) | Platform | Synchronous / Asynchronous Lecturing | Evaluation Methods | Resources |
|------|---------|--|---------------------------|--|-------------------|--------------------------------------|-----------------------|-----------|
| 1 | 1.1 | Introduction to animal production (Importance, Classification and terminology) | 1,2 | Face to Face | MS Teams + Moodle | Synchronous | Assignments & quizzes | Ref. 1,2 |
| | 1.2 | | | | | | | |
| 2 | 2.1 | Types and breeds of farm animals (Daily cattle) | 1 | Face to Face | MS Teams + Moodle | Synchronous | Assignments & quizzes | Ref. 1,2 |
| | 2.2 | | | | | | | |
| 3 | 3.1 | Types and breeds of farm animals (Beef cattle, Sheep) | | Face to Face | MS Teams + Moodle | Synchronous | Assignments & quizzes | Ref. 1,2 |
| | 3.2 | | | | | | | |
| 4 | 4.1 | Types and breeds of farm animals (Goats, Poultry) | 1 | Face to Face | MS Teams + Moodle | Synchronous | Assignments & quizzes | Ref. 1,2 |
| | 4.2 | | | | | | | |
| 5 | 5.1 | Animal Products (Meat) | 2,4 | Face to Face | MS Teams + Moodle | Synchronous | Assignments & quizzes | Ref. 1,2 |
| | 5.2 | | | | | | | |
| 6 | 6.1 | Animal Products (Milk) | 2,4 | Face to Face | MS Teams + Moodle | Synchronous | Assignments & quizzes | Ref. 1,2 |
| | 6.2 | | | | | | | |
| 7 | 7.1 | Animal Products (Eggs, Wool) | 2,4 | Face to Face | MS Teams + Moodle | Synchronous | Assignments & quizzes | Ref. 1,2 |
| | 7.2 | | | | | | | |
| 8 | 8.1 | Genetic improvement | 3 | Face to Face | MS Teams + Moodle | Synchronous | Assignments & quizzes | Ref. 1,2 |
| | 8.2 | | | | | | | |
| 9 | 9.1 | Reproduction in farm animals (Anatomy of reproductive system) | 3 | Face to Face | MS Teams + Moodle | Synchronous | Assignments & quizzes | Ref. 1,2 |
| | 9.2 | | | | | | | |

| | | | | | | | | |
|----|------|--|---|--------------|-------------------|-------------|-----------------------|----------|
| 10 | 10.1 | Reproduction in farm animals (Physiology of reproduction) | 3 | Face to Face | MS Teams + Moodle | Synchronous | Assignments & quizzes | Ref. 1,2 |
| | 10.2 | | | | | | | |
| 11 | 11.1 | Reproduction in farm animals (Hormones of reproduction) | 3 | Face to Face | MS Teams + Moodle | Synchronous | Assignments & quizzes | Ref. 1,2 |
| | 11.2 | | | | | | | |
| 12 | 12.1 | Digestive System of farm animals (Anatomy of digestive system) | 3 | Face to Face | MS Teams + Moodle | Synchronous | Assignments & quizzes | Ref. 1,2 |
| | 12.2 | | | | | | | |
| 13 | 13.1 | Digestive System of farm animals (Physiology of digestion) | 3 | Face to Face | MS Teams + Moodle | Synchronous | Assignments & quizzes | Ref. 1,2 |
| | 13.2 | | | | | | | |
| 14 | 14.1 | Nutrition (Nutrients, Nutritional value of feeds, Chemical analysis and energy evaluation) | 3 | Face to Face | MS Teams + Moodle | Synchronous | Assignments & quizzes | Ref. 1,2 |
| | 14.2 | | | | | | | |
| 15 | 15.1 | Animal Production Sector in Jordan | 2 | Face to Face | MS Teams + Moodle | Synchronous | Assignments & quizzes | Ref. 1,2 |
| | 15.2 | | | | | | | |

22. Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs are provided through the following assessment methods and requirements:

| Evaluation Activity | Mark | Topic(s) | SLOs | Period (Week) | Platform |
|----------------------|------|--|---|--|--------------|
| Homework's & Quizzes | 20% | Throughout the semester, with different topics of the course | See the students learning outcomes (SLOs) table | Throughout the semester | Face to Face |
| Midterm Exam | 30% | Topics covered until the end of week 7 | | 9, (27-4-2022) | Face to Face |
| Final Exam | 50% | All covered topics | | According to admission and registration unit | Face to Face |

23. Course Requirements

Students should have a computer, webcam, internet connection, account on a specific software/platform...etc.):

24. Course Policies:

A- Attendance policies:

Each student is expected to take their own notes (part from the exam) and to attend class. Absence from lectures shall not exceed **15%**. Students are expected to attend all lectures but if a student is absent from class, it is his responsibility to get the material that was missed. You must get any handouts or notes from your classmates.

B- Absences from exams and submitting assignments on time:

Exams will consist of **multiple choice and some Essay questions**. Exams will cover all material presented for each section. Make-up exams will only be provided for students with an excused absence and supporting documentation. The questions and/or format of any make-up exam may differ from that of the original exam. Scheduling of a make-up exam will vary depending upon available dates/times but **MUST** occur before the next-scheduled exam date.

C- Health and safety procedures:

Students should follow the Jordanian government guide

D- Honesty policy regarding cheating, plagiarism, misbehavior:

Academic dishonesty will **NOT** be tolerated. This includes cheating, fabrication or falsification, plagiarism, abuse of academic materials, complicity in academic dishonesty, falsifying grade reports, and misrepresentation to avoid academic work. For this course, evidence of any form of academic dishonesty will result in all involved students receiving zero points for any associated exam, or assignment

E- Grading policy:

| | |
|----------------------|-------------|
| Homework's & Quizzes | 20% |
| Mid-exam | 30% |
| Final Exam | 50% |
| Total Points | 100% |

F- Available university services that support achievement in the course:

Students account on E-learning, and Microsoft teams

25. References:

A- Required book(s), assigned reading and audio-visuals:

1. Field, T.G. and R.E. Taylor. 2015. Scientific Farm Animal Production: an introduction to animal science. 11th Edition, Pearson education, Inc. USA.
ISBN 10: 0133767205 ISBN 13: 9780133767209
2. Power point lectures file.

B- Recommended books, materials, and media:

1. Scanes, C. 2010. Fundamentals of Animal Science. 1st edition, illustrated, Cengage Learning.
ISBN-10: 1428361278, ISBN-13: 978-1428361270.

26. Additional information:

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| Name of Course Coordinator: Dr. Rabie Irshaid | Signature: ----- | Date: 27/2/2022 |
| Head of Curriculum Committee/Department: ----- | Signature: ----- | |
| Head of Department: ----- | Signature: ----- | |
| Head of Curriculum Committee/Faculty: ----- | Signature: ----- | |