AHP 3205-1 LIVESTOCK PRODUCTION SYSTEMS; NON-RUMINANTS60/30 CH 5.0
Course Purpose

The course is intended to equip the trainee with knowledge, skills and attitudes that will enable him/her to understand the importance and management of all non-ruminant livestock regarding feeding, economic significance and utilization and of their products

Learning Objectives

At the end of this course the student will be able to:

1. Discuss the role played by non-ruminant livestock in the food chain
2. Discuss the constraints in their acceptance and marketing aspects

Course Description

Non-ruminant agriculture and production systems. Application of the principles of breeding and selection: reproductive physiology, nutrition, health, housing and facilities in the management of pigs, poultry and rabbits. Non-ruminant products; handling, processing and marketing.

Mode of Delivery:

Face-to-face (Full-time) conducted through lectures; Tutorials; Class discussion; Practicals

Instructional Materials and Equipment

Projector; Textbooks; Laboratories; Computer laboratory.

Course Assessment

Examination - 50%; Continuous Assessment Test (CATS) - 50%; Total- 100%

Recommended textbook

1. James R. Gillespie, Frank B. Flanders (2009. Modern Livestock and Poultry Production, 8th Edition. Cengage Learning.

2. Henry Mwandawiro (2020). Golden Guide to Successful Commercial Rabbit Production. BookRix Production.

3. John Abraham (2020). Swine Production and Management. CRC Press.)

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR
THIRD YEAR SECOND SEMESTER

SCHOOL OF NATURAL RESOURCES TOURISM AND HOSPITALITY
BACHELOR OF SCIENCE IN ANIMAL HEALTH AND PRODUCTION

COURSE CODE: AHP 3205-1
COURSE TITLE: NON-RUMINANT LIVESTOCK PRODUCTION SYSTEMS

DATE: 21/4/2023   TIME: 1430-1730 HRS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions

This paper consists of 2 printed pages. Please turn over

LIVESTOCK PRODUCTION SYSTEMS – NON-RUMINANTS (100 MARKS)

1. a) List the main classes of essential nutrients in non-ruminant animals
    (5 marks)

    b) Define the following terms
       i) Non-ruminant
       ii) Agricultural value chain
       iii) Poultry
       iv) Buck   **(4 marks)**
    c) Name SIX (6) chicken breeds under the improved indigenous and layers categories   **(6 marks)**
    d) Outline FIVE (5) signs to look out for in rabbits before breeding
    (5 marks)

2. a) State key differences and similarities between chicken and rabbits digestive process.   **(10 marks)**

    b) Explain the effects of anti-nutritional factors in nutritional management of non-ruminants.   **(10 marks)**

3. Briefly discuss the advantages of keeping chickens in developing countries.   **(20 marks)**

4. Briefly describe the digestion and nutrient utilization of feed in rabbits.
    (20 marks)

5. a) Outline the key features of the village or "backyard" (traditional) poultry production system   **(10 marks)**

    b) Discuss the weaning process in rabbits.

    (10 marks)

6. a) Explain the key factors that affect the hatchability of eggs.

    (10 marks)

    b) Highlight the uses of pig meat and its by-products.   **(10 marks)**

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