



Salahaddin University-Erbil
College of Agricultural Engineering Sciences
Forestry Department

Subject: Wildlife Management Course Book – 3rd Year

Lecturers' names:
Dr. Ako Hussein Mahmood (Theoretical part) Mr.
Sherwan Yassin Hammad (Practical part)

Academic Year: 2022-2023

Course Book

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| 1. Course name | Wildlife Management - spring Semester |
| 2. Lecturer in charge | Dr. Ako Hussein Mahmood & Mr. Sherwan yassin |
| 3. Department/ College | Forestry / Agriculture Engineering Sciences |
| 4. Contact | e-mail:ako.mahmood@su.edu.krd Tel: (07504908145) Mr. Sherwan Yassin Email: sherwan.hammad@su.edu.krd Phone : 07504762389 |
| 5. Time (in hours) per week | Theory: 2 Practical: 3 |
| 6. Office hours | |
| 7. Course code | |
| 8. Teacher's academic profile | <p>I have finished my B.Sc. at Salahaddin University- Erbil – Agriculture college- Plant Production Department 2001; I completed M.Sc. at Salahaddin University- Erbil – Agriculture college- Plant Production Department 2007. I achieved PhD degree at Federation University in Australia in 2016. Currently I am working as academic staff teachers at Forestry Department - College of Agriculture Engineering Sciences.</p> <p>Dr. Ako Hussein Mahmood</p> <p>Bachelor's degree in Forestry and Horticultural Science in the year of 2011-2012 in College of Agricultural/ Salahaddin University. However I've got my Master Degree in Organic Agriculture in the year of 2015 in Italy. Now, I am working as Assistant Lecturer in the Forestry Department, College of Agricultural Engineering Sciences, Salahaddin University-Erbil.</p> <p>Mr. Sherwan Yassin Hammad</p> |
| 9. Keywords | Wild animals, Environment, Forestry , Ecology, Ecosystem |
| 10. Course overview: | <p>1- In this course students will learn various kinds of wild animals in nature and how development and modifications that occurred on their bodies to adapt with different types of environments, especially the wild animals that live in the forest,</p> <p>2-knowing the advantages and disadvantages of these animals in the forest.</p> <p>3- Also students in the subject should learn how to separate between orders and families of these animals within the animal kingdom</p> <p>4- And also student will get benefit from this topic to see what types of wild animals existing now and extinct and the reasons for their extinction.</p> |

11. Course objective:

1. This topic will cover the families of wild animals that live in the sea and land, which are part of the ecosystem on the surface of the globe.
3. We study kinds of wild animals and their positive and negative relations, which existing between them, as well as its role in the natural balance, especially the animals that live in the forest and that have an impact directly and indirectly on forests. 4. It also focus the role of forest to protect these animals

12. Student's obligation

The student must attend the classes and prepare for the exams, assignment reports, and quizzes.

13. Forms of teaching

Laptop will be used to explain the lecturers, using the power point.

Practical lecture:

Various technics will be used during this course, such as:

- Using white board to illustrate lectures for students,
- PowerPoint presentation, videos, pictures,..etc will be used,
- Using the laser pointer,
- Mention the important notes,
- Student participates, make group students. - Trips to the Zoo for the practical part

14. Assessment

Distribution of marks for this subject during the course are as follows: -

1. 40 degree distributed as follows: - 15 degrees for the first exam.
- 15 degrees for the second exam.
- 5 degrees on Quiz.
- 5 degrees onto the reports and oral presentation.
2. Exam at the end of course will be on 60%. And The final estimate =100%.

Practical Lecture:

- Laboratory participation: homework and weekly quizzes 5%
- Reports 5 %
- Activities 5%
- Practical exam: 20 %

15. Student learning outcome:

1. Students will be exposed to the wild animals and their benefits and their relationship with the forest.
2. Students will also discover their way for adaptation with the environment and their movement for survival and protection from enemy.

16. Course Reading List and References:

- 1) [Exploring Studbooks for Wildlife Management and Conservation](#) FPG Princee - 2016 – Springe.
- 2) Einstein, A., B. Podolsky, and N. Rosen, 1935, "Can quantum-mechanical description of physical reality be considered complete?", Phys. Rev. **47**, 777-780.
- 3) Wild animal and bird breeding by Dr. Azadin H. in 2003/ agricultural program of FAO.
- 4) Rare and extinct Iraqi mammals by Dr. shafeeq M. in 1984/ Baghdad University.
- 5) Biological principle and wild animal management by Dr. Masud M. Katani in 1980/ Mosul University / agriculture and Forest College.

- 6) Wild animals and bird hunting by Dr. Masud M. katani in 1985/ Mosul University / agriculture and Forest College.
- 7) Wild animal and means of development by Dr. Masud M. katani in 2001/ Duhok University.

17. The Topics: Theoretical part**Lecturer's time**

1. Some terms and definitions of wildlife and Relationship of wild animals with other in science.
2. The role of forests and agricultural fields and nature in the shelter of wild animals. The objective of wildlife care and the role of animal life of the unit of the forest.
3. The geographical distribution of wild animals in the world.
4. The factors that determine the distribution and spread of wild animals.
5. The most important climatic factors affecting the lives and the survival and distribution of wild animals.
6. Adaptation of wild animals according to different environments.
7. Classification of wild animals and scientific nomination.
8. Extinction of wild animals and their causes.
9. Wild animals with endocrine horns (Cervidae) and Wild animals with hollow horns (Bovidae).
10. Wildlife management procedures.
11. Iraqi wild animal extinction and certain remaining until now.
12. An overall conclusion of the subject.

(2 hrs) per week

18. Practical Topics (If there is any)

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| <ol style="list-style-type: none"> 1. Ecological terms used in wildlife management. 2. Ecosystem and type of ecosystems. <ol style="list-style-type: none"> a) Freshwater Ecosystems b) Terrestrial Ecosystems c) Ocean Ecosystems d) Network of food in each ecosystem. 3. Population. Types of Population structure:- <ol style="list-style-type: none"> a) Formal structure elements: b) Monogen structure elements. c) Syngen structure elements (collectively). 4. Animals community 5. Interactions between populations of different species within a community: <ol style="list-style-type: none"> a) Competition b) Predation c) Parasitism d) Mutualism e) Commensalism 6. First Exam, 7. Zoo and Park Management Techniques: <ol style="list-style-type: none"> a) Background, b) General Management Objectives, | <p>3 hours per week</p> |
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| <ul style="list-style-type: none"> c) Purpose of Zoo and Park d) Management Areas e) Skills for Zoo and Parks Management <p>8. Trip to the Erbil International Zoo.</p> <p>9. Main components of Zoo and park</p> <ul style="list-style-type: none"> a) Building b) Roads c) Road Signs d) Picnic Area e) Campgrounds – Campsites <p>10. Factors affecting on palatability.</p> <ul style="list-style-type: none"> a) Chemical features of food. b) Physical features of food. c) Biological features. d) Physiological state of animal. <p>11. Factors affecting on the local distribution of animals.</p> <ul style="list-style-type: none"> a) Climatic factors. b) Topography. c) Ecological succession. d) The distribution of plant canopy according to the soil humidity. <p>12. Second Exam,</p> <p>13. organisms qualify himself to the influence of surrounding environmental factors by: - a) Adaptation.</p> <ul style="list-style-type: none"> b) Structural Adaptation. c) Behavioral Adaptation. d) Physiological Adaptation (Acclimatization). e) Modification. | |
| <p>19. Examinations: The exams will be combination of true and false, explain briefly, define certain concepts, fill the blanks, and compare, and multiple choice.</p> | |
| <p>20. Extra notes: The course needs labs in future.</p> | |
| <p>21. Peer review one in this field</p> | <p>No پيداچوونھوھي ھاوھل</p> |