



**Department of Forestry**

**College of Agriculture Engineering Sciences**

**Salahaddin University**

**Subject: Meteorology**

**Course Book – 2<sup>ed</sup> Year**

**Lecturer's name: Dr. Ako H. Mahmood**

**Academic Year: 2022-2023**

# Course Book

<b>1. Course name</b>	<b>Meteorology - Fall Semester</b>
<b>2. Lecturer in charge</b>	<b>Dr. Ako Hussein Mahmood</b>
<b>3. Department/ College</b>	<b>Forestry / Agriculture</b>
<b>4. Contact</b>	<b>e-mail:ako.mahmood@su.edu.krd</b>
<b>5. Time (in hours) per week</b>	<b>Theory: 2 Practical: 3</b>
<b>6. Office hours</b>	
<b>7. Course code</b>	
<b>8. Teacher's academic profile</b>	I have finished my <b>B.Sc.</b> at Salahaddin University- Erbil – Agriculture college- Plant Production Department 2001; I completed <b>M.Sc.</b> at Salahaddin University- Erbil – Agriculture college- Plant Production Department 2007. I achieved <b>PhD</b> degree at Federation University in Australia in 2016. Currently I am working as academic staff at Forestry Department.
<b>9. Keywords</b>	<b>, Environment , Forestry , Ecology, Ecosystem</b>
<b>10. Course overview:</b>	We will study the basic principles of ecology, highlighting population, community and ecosystem ecology. We will depend on a variety of methods to learn about ecology and the way ecologists study natural systems. Lecture will emphasize general principles and models that underline this theory.
<b>11. Course objective:</b>	<p><b>By the end of the term, students should:</b></p> <ul style="list-style-type: none"> <li>• understand the basic foundations of ecology;</li> <li>• be able to conduct independent research;</li> <li>• be able to engage in intelligent discussions, and make informed decisions, about ecological and environmental issues;</li> <li>• be prepared to pursue advanced study in ecology (e.g., at the graduate level), if they choose.</li> </ul>
<b>12. Student's obligation</b>	<ol style="list-style-type: none"> <li>1. It is very unlikely that you will be able to earn a passing score in this course without attending the lectures and labs.</li> <li>2. Your success in this course depends carefully on keeping up with the readings and lecture materials.</li> <li>3. The best way to earn an "Excellent" is to attend lecture and lab, listen, and read assignments in a timely manner as the course progresses.</li> <li>4. Last-minute forcing for exams is not a successful strategy.</li> <li>5. Writing your own notes that the class and the laboratory quizzes will be extremely easy and straightforward if you read the material in advance.</li> </ol>

6. Make-up exams will be allowed only in extreme cases and only if there is well-documented absence due to serious illness, or other circumstances that are clearly beyond your control.

Teaching is an effective way of learning (just ask your instructors). We therefore encourage you to work in groups, explain concepts to one another (i.e., teach), and ask each other questions. Study for exams by going over old exams – take them first before referring to the keys. It's easy to think you know an answer if you look at the answer. Challenge yourself to think through the problem and construct the answer yourself. Explain your reasoning to your study group; listen to other ways of solving the problem.

### 13. Forms of teaching

Laptop is used to explain the lectures, using the power point. Moreover the discussion is also used sometime.

### 14. Assessment scheme

2 Exams = 60% (30% each)

Lecture Homework = 40% (20% for Quizzes and 20% for presentation)

Total = 100%

Lecture topics for this course are listed below.

Week	Lecture Topic
0	Explaining the overall objective of Principle of ecology and climate (Course book)
1	The Science of Ecology: Objectives, Vocabularies, Definitions
2	Ecosystem : structure and function
3	Air and Climatology
4	Effect of environmental factors on plant Growth
5	: 1. Temperature
6	2.Humidity
7	3. Precipitation
8	4. Wind
9	The Water Cycle, Carbon Cycle and Nitrogen Cycle
10	What have you learnt: An overall conclusion of the subject :
11	Suggested Questions for final Exam

### 15. Examinations:

The exams will be combination of true and false, explain briefly, define certain concepts, fill the blanks, and compare.