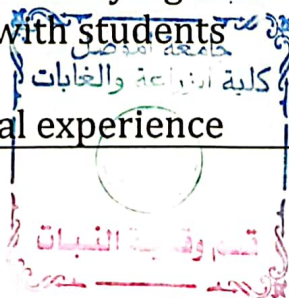


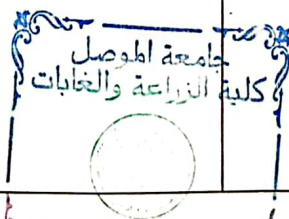
Course Description Form

1. Course Name:
General Zoology
2. Course Code:
GEZO123
3. Semester / Year:
Autumnal fall semester / 2023-2024
4. Description Preparation Date:
1 / 2 / 2024
5. Available Attendance Forms:
My presence
6. Number of Credit Hours (Total) / Number of Units (Total)
75 hours / 3.5 units
7. Course administrator's name (mention all, if more than one name)
Name: Abdul jabar kahlil and ammar manaf Email:jabar_obadi@uomosul.edu.iq ammar.manaf@uomosul.edu.iq
8. Course Objectives
- Enabling the student to understand and assimilate the general animal subject - Knowing the importance of basic zoology - Enabling the student to become familiar with animal science sources - Enable the student to distinguish animals - Enable the student to diagnose and classify animals - Enabling the student to learn about the basic practical methods in studying zoology And ways to deal with zoology in a practical and applied way and learn about animals
9. Teaching and learning strategies
- Interactive lectures - Brainstorming - Dialogue and discussion - Assigning tasks and reports - Displaying models of animals and identifying them - Preparing reports and discussing with students - Work collectively - Preparing reports for each practical experience



Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	Theoretical 2	<p>a1: Learn about the concept of zoology, its benefits, introduction and definition of animals, and the historical development of zoology</p> <p>b1: He possesses the practical and mental knowledge and concepts that help him in studying animals</p> <p>c 3: Community members participate and work to educate them about the importance of animals</p>	Introduction to the importance and branches of zoology	<p>Auditory Methods</p> <p>Writing on the board</p> <p>Direct dialogue</p>	Semester exam 1, final exam
	practical 3	c 3: Uses the information the student needs and what is available to him to master how to use the microscope, its structure, and its function	Types of microscopes	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Short Practical test 1
2	Theoretical 2	<p>a 2: The student explains the types of cells and the different foundations and elements of division and their types</p> <p>b1: The student writes the practical and mental knowledge and concepts that help him know the types of cells</p>	Animal cell	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Semester exam 1, final exam
	Practical 3	c3: The student uses and discovers how to make and use microscopes	Use a microscope	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Direct Drawing of the parts of the microscope
3	Theoretical 2	a 3: The student explains the different types of animal cell division and their importance in the field of zoology	Cell division	<p>theoretical: Auditory methods</p> <p>Writing on the board</p> <p>Direct dialogue</p>	Semester exam 1, final exam
	Practical 3	<p>b 1: Practicing thinking to solve work problems in preparation</p> <p>c 3: Uses important methods for preparing slides</p>	Preparing slides	<p>Interactive lecture, brainstorming, dialogue and discussion,</p> <p>field training, and self-learning</p>	Practical evaluation

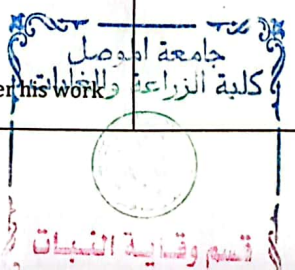


قسم وقاية النباتات

4	Theoretical2	<p>a 1: The student shows the different protoplasm and cytoplasm systems and their importance</p> <p>b3: Distinguish the protoplasm cytoplasm systems</p> <p>c 1 : The student designs methods to understand protoplasm and cytoplasm in the field of zoology</p>	Protoplasm and cytoplasm	<p>Interactive lecture, brainstorming, dialogue and discussion,</p> <p>field training, and self-learning</p>	Semester test 1, final test, report
	Practical 3	<p>C 3: The student uses the information he needs and what is available to him to master his work on the subject of animal ornaments</p> <p>C4: The student employs modern techniques to provide a practical explanation of animal cells</p>	Practical explanation of animal cells	<p>Interactive lecture, brainstorming, dialogue and discussion,</p> <p>field training, and self-learning</p>	Practical quiz 2, direct drawing
5	Theoretical2	<p>a 4: The student will be able to understand the theories of the origin of life</p> <p>b 3: Participates with community members and works to educate them about the importance of the origin of life</p>	Theories of the origin of life	<p>Interactive lecture, brainstorming, dialogue and discussion,</p> <p>field training, and self-learning</p>	Semester test 1, final test, report
	Practical 3	<p>C3: The student uses the information he needs in cell division</p> <p>b1: The student acquires coping skills in studying cell division</p>	Cellular division	<p>Interactive lecture, brainstorming, dialogue and discussion,</p> <p>field training, and self-learning</p>	Practical evaluation
6	Theoretical2	<p>a 2: The student explains the different types of tissues and their importance in studying animals</p> <p>b 4: The student demonstrates tissue identification skills</p>	Tissue	<p>Interactive lecture, brainstorming, dialogue and discussion,</p> <p>field training, and self-learning</p>	Short test, final test



	Practical 3	<p>C2: The student creates a study of the types of primary school division using modern computer applications</p> <p>C3: The student uses the information he needs and what is available to him in the subject of primary school</p>	Elementary Division	<p>Interactive lecture, brainstorming, dialogue and discussion,</p> <p>field training, and self-learning</p>	Direct Drawing And homework
7	Theoretical2	<p>b 3: The student evaluates methods for studying classification and naming</p> <p>c 1: The student designs methods for studying matters related to the classification of animals</p>	Classification and scientific nomenclature	<p>Interactive lecture, brainstorming, dialogue and discussion,</p> <p>field training, and self-learning</p>	Semester exam 2, final exam
	Practical 3	<p>C 1: The student innovates new methods for studying classification of animal species and uses modern computer applications for study</p> <p>c 3: The student uses the information he needs for classification and naming and what is available to him to master his work</p> <p>c 4: The student draws programs to develop the study of the classification of porosities in the field of zoology</p>	Porosity	<p>Interactive lecture, brainstorming, dialogue and discussion,</p> <p>field training, and self-learning</p>	Field project
8	Theoretical2	<p>b 1: The student practices skills to study the importance of invertebrates</p> <p>c 2: Applies modern techniques in the field of studying invertebrates in accordance with the requirements of zoology</p>	Invertebrates	<p>Interactive lecture, brainstorming, dialogue and discussion,</p> <p>field training, and self-learning</p>	Semester exam 2, final exam
	Practical 3	<p>c 2: The student invents new ways to study the cnidarians by hand, using modern computer applications, and has the ability to learn good ways to identify cnidarians.</p> <p>c3: The student uses the information he needs and what is available to him to master his work</p>	Cnidarians	<p>Interactive lecture, brainstorming, dialogue and discussion,</p>	Direct Drawing And homework



9	Theoretical2	<p>a 1: The student's knowledge of the importance of digestion and absorption in animals</p> <p>c 3: The student uses the information he needs and what is available to him to master his work in understanding the subject of digestion and absorption</p>	Digestion and absorption	<p>Interactive lecture, brainstorming, dialogue and discussion,</p> <p>field training, and self-learning</p>	Semester exam 2, final exam
	Practical 3	<p>c2 : The student innovates new methods to study types of flatworms by hand and using modern computer applications</p> <p>c3: The student uses the information he needs and what is available to him to master his work</p>	Flatworms	<p>Interactive lecture, brainstorming, dialogue and discussion, field training, and self-learning</p>	Direct Drawing And homework
10	Theoretical2	<p>a 1: The student understands methods for studying the circulatory system of animals</p> <p>c 4: The student evaluates the use of methods to study the circulatory system in animals</p>	Circulatory device	<p>Interactive lecture, brainstorming, dialogue and discussion,</p> <p>field training, and self-learning</p>	Semester test2
	Practical 3	<p>c 1: The student designs new methods to study bagworms by hand and using computer applications</p> <p>c 3: The student uses the information he needs and what is available to him to master his work to understand the topic of bagworms</p>	Bagworms	<p>Interactive lecture, brainstorming, dialogue and discussion,</p> <p>field training, and self-learning</p>	Direct Drawing And homework
11	Theoretical2	<p>b2: The student expresses the importance of respiratory systems and types of breathing</p> <p>c1: The student will be able to use the computer in breathing methods and employ them in a way that is compatible with the study of zoology</p>	Breathing	<p>Interactive lecture, brainstorming, dialogue and discussion, self-learning</p>	Final Test

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	Practical 3	<p>c 2: The student invents new methods for species of the annelid phylum by hand and using modern computer applications</p> <p>c3: The student uses the information and resources available to him to master his work</p>	Annelids	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Direct Drawing And homework
12	Theoretical2	<p>a 1: The student is able to understand the importance of waste excretion systems in animals</p> <p>c 4: The student develops methods for studying the excretory system in zoology</p>	The excretory system	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Final test
	Practical 3	<p>C2: The student identifies the articular division of the leg</p> <p>C3: The student uses the information he needs and what is available to him to master his work</p>	Articulated feet	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Direct drawing and homework
13	Theoretical2	<p>a2: The student explains the importance of the nervous system</p> <p>b3: The student discusses the information and what is available to him to master the work of studying the nervous system</p>	Nervous system	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Final test
	Practical 3	<p>C 2: The student identifies new methods for types of soft material s by hand and using modern computer applications</p> <p>C 3: The student prepares the information he needs in the Al-Nawaem Division and what is available to him to master his work</p>	mollusca	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Direct drawing and homework
14	Theoretical2	<p>b 1: The student practices new methods for studying the phylum Echinodermata by hand and using modern computer applications</p>	Chemical coordination	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Short test , final test



	Practical 3	<p>C3: The student prepares the information he needs about the phylum Echinodermata and what is available to him to master his work</p> <p>D17: He is proficient in the skills of communicating with modern technology efficiently, enabling him to accomplish his scientific and practical tasks</p>	Echinodermata	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Short practical test3
15	Theoretical2	<p>a1: The student innovates new ways to study the skeleton by hand and using modern computer applications</p> <p>c4: The student develops his abilities to study the skeleton and use it in a manner consistent with the goals of zoology</p>	The skeleton and the rest of the themes	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Short test , final test
	Practical 3	<p>b3: The student uses the information he needs and what is available to him to master his work on the subject of chordates and anatomy</p> <p>C 1: The student acquires skills in the subject of anatomy</p>	Chordates and frog anatomy	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Practical Report

11. Course Evaluation

	Calendar methods	Evaluation date (one week)	Grade	Relative weight %
1	Report 1	fourth week	2.5	2.5
2	Report 2	The fifth week	2.5	2.5
3	Short test (1) Quiz	the sixth week	2	2
4	Short test (2) Quiz	The fourteenth week	2	2
5	Short test (3) Quiz	The fifteenth week	1	1
6	Semester test (1)	the sixth week	7.5	7.5
7	Semester test (2)	The eleventh week is difficult	7.5	7.5
8	Final theoretical test	Final semester exams	40	40
9	Report 3	The fifteenth week		5
10	Homework	The third and fifth week	2	2

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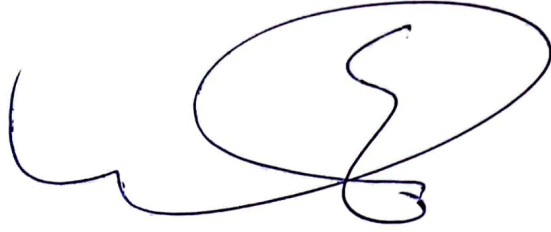
12	Practical short test (1) Quiz	The first week	1	1
	Short practical test (2) Quiz	fourth week	0.5	0.5
13	Short practical test (3) Quiz	The fourteenth week	1	1
14	Live graphics	Weeks 6, 8, 9, 10, 11, 12 and 13	5.5	5.5
15	Final practical test	Final semester exams	20	20
	the total		100	100%

12. Learning and Teaching Resources

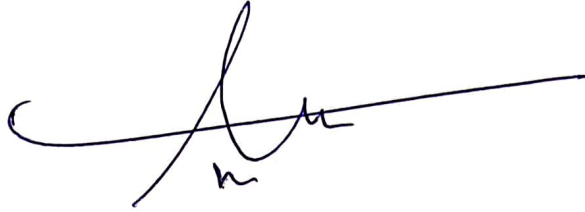
Required textbooks (curricular books, if any)	Shlimon Najm and Zuhair Fattuhi (1989), General Zoology, Mosul University, Dar Al-Kutub Publishing House, 644 pages.
Main references (sources)	- Abu Sunna Jamal and others (2003), Zoology, Dar Al-Fikr, Amman, 765 pages. 2- Abu Tarbush Faisal and others (2002) Principles of Practical Zoology, King Saud University. Scientific Publishing, 189 pages.
Recommended books and references (scientific journals, reports...)	StEphen A.andJohn P.(2007) Zoology ,7Edition, publish mnGraw –Hill Inc Avenue of America New York ,558 p
Electronic References, Websites	Scientific researcher and journals in zoology and Reserch gate.....



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Dr. Abdul-Jabbar K. Ibrahim



Practical subject teacher
Ammar Manaf Mohammed



Chairman of the Scientific Committee
Professor Dr. Juhaina Idris Mohamed



Head of Plant Protection Department
Dr Firas Kazem Daoud Al-Jubouri

