COURSE SPECIFICATION
General Entomology Lab./ Undergraduate Students
2022-2023

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	University of Baghdad/college of science
2. University Department/Centre	Department of Biology
3. Course title/code	**General Entomology Lab.**
4. Programme(s) to which it contributes	Bachelor in Biology
5. Modes of Attendance offered	Teaching Lecture
6. Semester/Year	2022-2023
7. Number of hours tuition (total)	15 weeks
8. Date of production/revision of this specification	15/09/2022
9. Aims of the Course	
Study of the order of Insecta, in general and their Morphology, Anatomy Developments and life histories of insects Relationships and their habits and habitats .	

10· Learning Outcomes, Teaching ,Learning and Assessment Methode

A- **Knowledge and Understanding**:

A1- is the field that provides scientific names for insect describes them, preserves collections of them.

A2- provides classifications for the insects, and for their identification.

A3- investigates their anatomy, and considers their environmental habitat.

A4- classifications of life histories of insects.

B. Subject-specific skills:

B1. Including the scientific names of insects, species descriptions and overviews, taxonomic orders, and classifications of evolutionary and insects histories

B2. Studying the diversity of organisms and the differentiation between extinct and living creatures. Biologists study the well-understood relationships between thim

B3. Explaining the biodiversity of the insects orders. The systematic study is that of conservation

Teaching and Learning Methods

Preparation of PowerPoint lectures and the use of the presentation screen, using charts of the most prominent information from modern sources

Assessment methods

Weekly, monthly and quarterly tests with reports on related topics

C. Thinking Skills:

C1- Developing the student's ability to learn about the diagnosis of living organisms in his environment

C2- prepare the student in a way that qualifies him to deal with living organisms in his environment

Teaching and Learning Methods By lecturing using the latest methods used in the rugged universities

Assessment methods

1- Directly: the quarterly and monthly written exams

2. Indirect: oral tests

D. **General and Transferable Skills (other skills relevant to employability and personal development)**

D1- Providing the student with the special experiences of collecting, describing and classifying the models

D2- provide the students with the scientific methods to perform a research

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
First week	3h	Introductory remarks (Definition of the insect relationships with other Arthropods) Insects Techniques		PowerPoint + L.C.D	
second week	3h	The body parts (head , Antennae (American cockroaches		PowerPoint + L.C.D	written exam
Third week	3h	Antennae, mouth parts)) ((American cockroaches		PowerPoint + L.C.D	
Fourth week	3h	((American cockroaches) (thorax, abdomen, sex differentiation)		PowerPoint + L.C.D	
Fifth week	3h	Locust (thorax, abdomen, sex differentiation)		PowerPoint + L.C.D	
Sixth week:	3h	American cockroaches) (Thorax) (appendages (legs and wings		PowerPoint + L.C.D	written exam
Seventh week:	3h	Internal Anatomy : Respiratory and circulatory system, Alimentary canal, digestive glands American cockroaches))		PowerPoint + L.C.D	
Eighth week	3h	Internal Anatomy : Reproductive system (American cockroaches)		PowerPoint + L.C.D	
Ninth week and Tenth week:	3h	Internal Anatomy : Reproductive and nervous system (American cockroaches)		PowerPoint + L.C.D	written exam
Eleventh week	3h	Types of mouth parts		PowerPoint + L.C.D	
Twelfth week thirteenth week	3h	Types of Antenna Type of the Legs		PowerPoint + L.C.D	written exam
Fourteenth week	3h	Types of wings, wings venation and wing –coupling apparatus			
fiftenth week	3h	Development and metamorphosis, embryology, development			

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	• Imms outlines of entomology , O.W Richards and R. G. Davies, chapman and hall , 1978 • Principle of insect morphology, E.J. Boell , R. E. Snodgrass 1935 new york and london • The insects structure and function.
Special requirements (include for example workshops, periodicals, IT software, websites)	Scholarly articles from journal of taxonomy and biosystematics
Community-based facilities (include for example, guest Lectures , internship , field studies)	(field studies from different environments)

13. Admissions	
Pre-requisites	Bachelor in Biology
Minimum number of students	
Maximum number of students	

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