

Course E-Syllabus

1	Course title	Practical General Zoology
2	Course number	5501254
3	Credit hours	1 hours
	Contact hours (theory, practical)	Practical
4	Prerequisites/corequisites	Prerequisite: 5501253 or concurrently
5	Program title	Marine Biology
6	Program code	
7	Awarding institution	School of Basic and Marine Sciences
8	School	Basic and Marine Sciences
9	Department	Marine Biology
10	Level of course	Second year
11	Year of study and semester (s)	First Semester 2020-2021
12	Final Qualification	
13	Other department (s) involved in teaching the course	
14	Language of Instruction	English
15	Teaching methodology	<input checked="" type="checkbox"/> Blended <input checked="" type="checkbox"/> Online
16	Electronic platform(s)	<input type="checkbox"/> Moodle <input type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input checked="" type="checkbox"/> Zoom <input checked="" type="checkbox"/> Others.....
17	Date of production/revision	

18 Course Coordinator:

Name: Dr. Maroof Khalaf
Office number: 3-2090450 ext. 35073
Phone number: 0791695905
Email: m.khalaf@ju.edu.jo

19 Other instructors:

Name: Prof. Dr. Maroof Khalaf
Office number: 3-2090450 ext. 35073
Phone number: 0791695905
Email: m.khalaf@ju.edu.jo

Name:
Office number:
Phone number:
Email:

۲۰ Course Description:

As stated in the approved study plan.

The practical part deals with the identification of vertebrate & invertebrate organisms classification structure and function anatomy.

۲۱ Course aims and outcomes:

-
- To Understand the Lab Safety General Guideline's and how the student will use microscope.
- The course will provide the students with capabilities how to identify and classify vertebrate & invertebrate organisms.
- To know how to identify important structures and functions from unicellular and microscopic organisms.
- How to dissect some invertebrate organisms such as bivalvia (mussels), vertebrate group such as fishes and expose various systems digestive, respiratory, excretory and reproductive system of each of the following invertebrate and vertebrate groups: Protozoan Groups, Sponges and Placozoans, Cnidaria and Ctenophora, Flatworms, Rotifera, Molluscs, Nematoda: Roundworms, Crustaceans, Insecta, The Chordates (tunicates, Lancelets and fishes).
-

A- Aims:

-
- At the end of this module, students will be able to:
- To Know what are invertebrate and vertebrate groups: Their evolution, main characteristics, forms and functions.
- How to identify each group starting from Protozoan; and passing through Sponges; Cnidaria; Flatworms; Rotifera; Molluscs; Annelids; Arthropoda: Chelicerates, and Myriapods; Subphylum Crustacea:
- The topics covered in this course will allow the students to better comprehend other courses related to zoology and biochemistry courses.
- Draw and learn the structure of parts of each of the above mentioned invertebrates and vertebrate groups.

B- Intended Learning Outcomes (ILOs):

- At the end of this module, students will be able to:
- Know the derived characteristics of major invertebrate and invertebrate groups such as: Protozoan Groups, Sponges and Placozoans, Cnidaria and Ctenophora, Flatworms, Rotifera, Molluscs, Nematoda: Roundworms, Crustaceans, Insecta, The Chordates (tunicates, Lancelets and fishes).
- Know the external and internal structures of various invertebrate vertebrate groups starting from Protozoa, rotifers, sponges, nematodes, crustaceans, Amphioxus, Tunicates and fishes. Their characteristics and habitat.
- To know how to dissect and expose various systems digestive, respiratory, excretory and reproductive system of mollusca.
- Know the role of some protozoans, nematodes as parasitism and their life cycles.
- Draw and learn the parts of each of the above mentioned invertebrates and vertebrate groups.
-

۲۲. Topic Outline and Schedule:

Week	Lecture	Topic	Teaching Methods*/platform	Evaluation Methods**	References
1	1.1	<i>The Flagellated Protozoans</i> <i>Euglena</i> : Sketch and identify the structures you can identify <i>Paramecium</i> : Sketch and identify the structures you can	Lectures at the university campus, PPT, videos	Participation and quiz	General Zoology Laboratory Manual ntegrated Principles of Zoology

		Identify LIFE CYCLE OF PLASMODIUM			
	1.2				
	1.3				
2	2.1				
	2.2	Phylum: Porifera SPONGES A. TAXONOMY Class Calcarea - Class Hexactinellida - Class Demospongiae - Class Sclerospongiae Types of water canal system	Lectures at the university campus, PPT, videos	Participation and quiz	General Zoology Laboratory Manual Integrated Principles of Zoology
	2.3				
3	3.1				
	3.2	Phylum: Cnidaria Class Hydrozoa Genus <i>Hydra</i> <i>Obelia</i>	Lectures at the university campus, PPT, videos	Participation and quiz	General Zoology Laboratory Manual Integrated Principles of Zoology
	3.3				
4	4.1				
	4.2	Phylum: Cnidaria Sea anemone Soft and Hard coral	Zoom, PPT, E- learning and facebook	Participation and quiz	General Zoology Laboratory Manual Integrated Principles of Zoology
	4.3				
5	5.1				
	5.2	Phylum Platyhelminth: Planaria Taenia saginata: Beef Tapeworm	Zoom, e-learning, and facebook	Participation and home work	General Zoology Laboratory Manual Integrated Principles of Zoology
	5.3				
6	6.1				

	6.2	Phylum: Mollusca GENERAL DESCRIPTION MOLLUSCAN SYSTEMATICS Class Polyplacophora Class Scaphopoda (tusk shells) Class Gastropoda (snails and slugs)	Zoom, e-learning, and facebook	Participation and home work	General Zoology Laboratory Manual Integrated Principles of Zoology
	6.3				
7	7.1				
	7.2	Phylum: Mollusca Class Bivalvia (bivalved mollusks) Class: Cephalopoda	Zoom, e-learning, and facebook	Participation and home work	General Zoology Laboratory Manual Integrated Principles of Zoology
	7.3				
8	8.1				
	8.2	Phylum: Echinodermata Sea urchin Sand dollar Sea stars Sea cucumber	Zoom, e-learning, and facebook	Participation and home work	General Zoology Laboratory Manual Integrated Principles of Zoology
	8.3				
9	9.1				
	9.2	<i>Subphylum Cephalochordate (lancelets).</i> <i>Subphylum Urochordata (sea squirts, tunicates).</i>	Zoom, e-learning, and facebook	Participation and home work	General Zoology Laboratory Manual Integrated Principles of Zoology
	9.3				

- Lectures, discussion groups, tutorial, problem solving, debates, dissections....etc.
- The use of power Point presentations, Illustrations with modules, educational animations, and movies.
- Teaching methods include: Synchronous lecturing/meeting; Asynchronous lecturing/meeting
- Evaluation methods include: Homework, Quiz, Exam, pre-lab quiz...etc

۲۳ Evaluation Methods:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	Period (Week)	Platform
Participation	10			Class, Platform,
Lab Reports	30			E-learning
Mid Exam	20			
Final Exam	40			

۲۴ Course Requirements (e.g: students should have a computer, internet connection, webcam, account on a specific software/platform...etc):

۲۵ Course Policies:

- A- Attendance policies: students attendance have not been taken into consideration in the evaluation.
- B- Absences from exams and submitting assignments on time: Have been taken with serious consideration,
- C- Health and safety procedures: Not applicable
- D- Honesty policy regarding cheating, plagiarism, misbehavior: Cannot be controlled in electronic exams
- E- Grading policy: As have been agreed upon during our department meeting. Exams, reports and participation 50 marks and final exam 50 marks.
- F- Available university services that support achievement in the course:
Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean, the student shall be considered to have withdrawn from the course. Because of Corona virus many lectures were given through Zoom programme.

۲۶ References:

A- Required book(s), assigned reading and audio-visuals:

General Zoology Laboratory Manual

[Stephen A. Miller](#)

Wm. C. Brown, 1994 - [Anatomy, Comparative](#) - 326 pages

B- Recommended books, materials and media:

Integrated Principles of Zoology. *Publisher: Janice Roerig-Blong.* Fourteenth Edition.

∩∩ Additional information:

- 1- Support material (s): homework, video clips, homework exams
- 2- Lectures were given online via zoom, lectures were uploaded via university E-learning and face book page. Communications were carried out via face book, whatsapp and Elearning.
- 3- Videos were also give to the students

Name of Course Coordinator: Prof. Dr. Maroof Khalaf-----Signature: -----
--- Date: -22-11-2020-----

Head of Curriculum Committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of Curriculum Committee/Faculty: ----- Signature: -----

Dean: ----- Signature: -----