هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

Course Title:	Parasitology
Course Code:	**ZOOL 352**
Program:	Biology B.Sc.
Department:	**Biology**
College:	Science
Institution:	**Jazan University**
Version:	**20232**
Last Revision Date:	*Pick Revision Date.*

Table of Contents:

A. General information about the course:

Course Identification					
1. Credit hours:	2h				
2. Course type					
a.	University ☐	College ☐	Department☒	Track☐	Others☐
b.	Required ☒	Elective☐			
3. Level/year at which this course is offered: Level 9- 3rd year					
4. Course general Description General concepts of parasitology, knowledge of some parasitic diseases, different parasitic from different phyla, life cycles and host parasite relationships.					
5. Pre-requirements for this course (if any): ZOOL 252					
6. Co- requirements for this course (if any): None.					
7. Course Main Objective(s) **1. General concept of parasitology.** **2. Knowledge of some parasitic diseases that could be transmitted between animals and man (Zoonotic diseases).** **3. Knowledge how to protect man and domestic animals from parasites and their treatment.** **4. Basic knowledge of parasitism, the different biological inter-relationships and the host parasite relationships.** **5. Knowledge of different parasitic examples from all phyla (Protozoa & Platyhelminthes, Nematoda), their morphology, biology, life cycles, diagnosis, treatment & control.** **6. Dissemination of health awareness of these parasitic diseases.**					

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	10	%77
2.	E-learning	1	%7.7
3.	Hybrid • Traditional classroom • E-learning	1	%7.7
4.	Distance learning	1	%7

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours

1.	Lectures	11
2.	Laboratory/Studio	22
3.	Field	-
4.	Tutorial	-
5.	Others (specify) (Self-Learning)	2
	Total	35

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Define the parasitism and their types & examples.	K1.1	• Lectures • Lab work	• Quizzes • Short Answer Question • assignments Lab work assessment
1.2	Compare between different parasites and explaining and aspects related to parasites.	K2.1	• Lectures • Group Discussion • Lab work	• Written exam • Quizzes • Lab work assessment
1.3	Understand host-parasite relationship .	K3.1	• Lectures, • Web-based work	• Written examples Short Answer Question
2.0	Skills			
2.1	Argue parasitic diseases and the life cycles, diagnosis, treatment & control.	S1.1	• Lectures • Lab work	• Short Answer Question • Assignments • Written exam
2.2	Propose solutions for different parasites infections.	S3.2	• Lectures • Lab work	• Quizzes • Written exam
3.0	Values, autonomy, and responsibility			
3.1	Illustrate awareness of risk assessment and safety observation when dealing with various parasites	V2.1	• Lab Work • Group Discussion	• Lab work assessment • Group Assignment

C. Course Content

No	List of Topics	Contact Hours
1.	Introduction: Parasitology, terms, definitions. Parasitism picture for the host - division of parasites according to the number of families - ways of transmission of parasites - the effect of parasites on their hosts - division of parasitology - general characteristics of parasitic protozoa, types of	1

	parasitism.	
2.	Phylum Amoebozoa, Class: Archamoebae (*Entamoeba histolytica*), (*Entamoeba coli*), Class: Kinetoplastida (*Trypanosoma sp.*) three types: Trypanosoma gambiense, T. rhodsiense, T. cruzi	1
3.	Phylum Euglenozoa, Class: Kinetoplastea (*Leishmania*), Phylum Metamonada, Order: Diplomonadida (*Giardia lamblia*), Order: Trichomonadida (Trichomonas tenax), (Trichomonas vaginalis)	1
4.	Phylum Ciliophora, Class: Litostomatea (Balantidium coli), Phylum Apicomplexa, Class: Aconoidasida (Plasmodium sp.), (Plasmodium falciparum), (Plasmodium vivax) (Eimeria) (Cystoisospora belli)	2
5.	Phylum Apicomplexa, Class: Conoidasida.(Toxoplasma gondii) (Sarcocystis) (Cryptosporidium sp.)	1
6.	Phylum: Platyhelminthes –Helminths- General characteristics, Class: Trematoda, (Fasciola hepatica), (Heterophyes heterophyes), (Schistosoma Spp.), (Clonorchis sinensis), (Paragonimus westermani)	1
7.	Phylum Platyheminthes, Class: Cestoda (Taenia saginta), (Taenia solium), (Dipylidium caninum), (Dipylidium latum), (Hymenolepis nana), (Hymenolepis diminuta), (Echinococcus granulosus)	1
8.	Phylum Nematoda, General characteristics, Class: Chromadorea (Ascaris lumbricoides), (Necator americanus)	1
9.	Phylum Nematoda, Class: Secernentea, (Enterobius vermicularis), (Ancylostoma duodenale)	1
10.	Phylum Nematoda,Class: Enoplea (disputed). (Trichinella spiralis), (Trichuris trichura), (Strongyloides stercoralis), (Wuchereria bancrofti), (Loa loa)	1
11.	Medical arthropods: Anopheles, Musca domestica, Tse Tse fly, Sand fly, Cimex lecturalis, Siphonaptera, Lice, Tick, Flea, Mites, Cockroaches.	Self-Study
Total		11

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Homework assignment	2	%10
2.	Lecture Quizzes (written test)	3	%10
3.	Mid-term exam (written test)	6	%20
4.	Final practical exam	11	%20
5.	Final Exam	12	%40

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	مذكرة الطفيليات النظري الطفيليات والانسان ، 2007، ناديه محمد الالفي، القاهرة : دار الفكر العربي،
Supportive References	Loker, E.S. and Hofkin, B.V. (2015) parasitology. A conceptual approach. Garland science. Taylor and Franis group. New York and London. 577 pages.
Electronic Materials	https://ar.wikipedia.org, www.ncbi.nlm.nih.gov/books/NBK8262/
Other Learning Materials	www.youtube.com : https://www.cambridge.org/core/journals/parasitology

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Lecture room(s) for groups of 50 students. Laboratory for group of 25 students
Technology equipment (projector, smart board, software)	Computer laboratories for groups of 25 students.
Other equipment (depending on the nature of the specialty)	Light microscopes, glassware, etc.

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	by Program QA Unit.	questionnaires
Effectiveness of students assessment	by Program QA Unit.	questionnaires

Assessment Areas/Issues	Assessor	Assessment Methods
Quality of learning resources	by Program QA Unit.	questionnaires
The extent to which CLOs have been achieved	Coordinator	Course content assessment
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	Biology Department Board
REFERENCE NO.	BIO2214
DATE	20/9/2022AD