



## Course Specifications

<b>Course Title:</b>	<b>Parasitology</b>
<b>Course Code:</b>	<b>2014101-3</b>
<b>Program:</b>	<b>Bachelor in Zoology</b>
<b>Department:</b>	<b>Biology Department</b>
<b>College:</b>	<b>College of Sciences</b>
<b>Institution:</b>	<b>Taif University</b>

## Table of Contents

<b>A. Course Identification</b> .....	<b>3</b>
6. Mode of Instruction (mark all that apply) .....	3
<b>B. Course Objectives and Learning Outcomes</b> .....	<b>3</b>
1. Course Description .....	3
2. Course Main Objective.....	3
3. Course Learning Outcomes .....	3
<b>C. Course Content</b> .....	<b>4</b>
<b>D. Teaching and Assessment</b> .....	<b>5</b>
1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods .....	5
2. Assessment Tasks for Students .....	5
<b>E. Student Academic Counseling and Support</b> .....	<b>5</b>
<b>F. Learning Resources and Facilities</b> .....	<b>6</b>
1. Learning Resources .....	6
2. Facilities Required.....	6
<b>G. Course Quality Evaluation</b> .....	<b>6</b>
<b>H. Specification Approval Data</b> .....	<b>6</b>

## A. Course Identification

<b>1. Credit hours:</b> 3hr
<b>2. Course type</b>
a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
<b>3. Level/year at which this course is offered:</b> 10 <sup>th</sup> Level / 4 <sup>th</sup> year
<b>4. Pre-requisites for this course (if any):</b> Invertebrates 2012204-3
<b>5. Co-requisites for this course (if any):</b> None

## 6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	6hours /week	100%
2	Blended	----	----
3	E-learning	----	----
4	Distance learning	----	----
5	Other	----	----

## 7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	30
2	Laboratory/Studio	30
3	Tutorial	-
4	Others (specify)	-
	<b>Total</b>	60

## B. Course Objectives and Learning Outcomes

<b>1. Course Description:</b> This course deals with studying the relationships between living organisms, parasitism and adaptation of parasites to their mode of life as well as parasitic Protozoa, Platyhelminthes, Nematoda and their harmful effect on the host.
<b>2. Course Main Objective:</b> To identify parasites and their modern taxonomic position, general characters of different taxonomic groups, different life cycles of various parasitic organisms, the economic effect of parasitic organisms and their relationship to human and animals.

## 3. Course Learning Outcomes

CLOs		Aligned PLOs
1	<b>Knowledge and Understanding:</b>	
1.1	Identify general facts, principles, scientific terminology and concepts of classification across parasitic organisms.	K1

CLOs		Aligned PLOs
1.2	Classify different parasitic groups and organisms based on their characteristics and life cycles.	K2
<b>2</b>	<b>Skills:</b>	
2.1	Compare the different methods of infection and different parasitic groups.	S1
2.2	Utilize concepts and basics of parasitology in economic, medical and environmental contexts.	S3
<b>3</b>	<b>Values:</b>	
3.1	Appraise initiatives in professional planning for continuous learning and specialized work.	V3

### C. Course Content

No	List of Topics	Contact Hours
1	<b>Chapter1: Introduction</b> Concept of parasitology and parasitic mode of life and the deference between free living mode of life.	3L + 3P
2	<b>Chapter 2: Sarcodina</b> Classification of parasites and Scientific nomenclature Sarcomastigophora- General characters of Sarcodina <i>Entamoeba coli</i> <i>Entamoeba histolytica</i> Other examples of Sarcodina, <i>E. gingivals</i>	3L + 3P
3	<b>Chapter 3: Mastigophora</b> Mastigophora- General chracters Ultrastructure of cilium and flagellum African <i>Trypanosoma</i> American <i>Trypanosoma</i> <i>Leischmania</i>	3L + 3P
4	<b>Chapter 4: Ciliophora and Apicomplexa</b> Ciliophora- General characters <i>Balantedium</i>	3L + 3P
5	Apicomplexa <i>Plasmodium</i> , <i>Eimeria</i> sp. <i>Monocystis</i> and <i>Toxoplasma</i>	3L + 3P
6	<b>Chapter 5: Parasitic Platyhelminthes</b> Platyhelminthis- General characters <i>Fasciola</i> . <i>Schistosoma mansoni</i> and <i>S. haematobium</i> <i>Heterophyes</i> , <i>clonorchis</i>	3L + 3P
7	Cesstodes: <i>Taenia solium</i> , <i>T. Saginata</i> . <i>Hymenolepis nana</i> , <i>H. diminuta</i>	3L + 3P
8	<i>Echinococcus granulosus</i> , <i>Diphyllobothrium latum</i>	3L + 3P
9	<b>Chapter 6: Parasitic Nematodes</b> Nematodes: <i>Ascaris</i> , <i>Ankyostoma</i> , <i>Felaria</i> , <i>Enterobius vermicularis</i> , <i>Trichuris</i> , <i>Ancylostoma duodenale</i> , <i>Trichinella spiralis</i> , <i>Wuchereria bancrofti</i>	6L + 6P
<b>Total</b>		<b>30L + 30P</b>

## D. Teaching and Assessment

### 1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	<b>Knowledge and Understanding:</b>		
1.1	Identify general facts, principles, scientific terminology and concepts of classification across parasitic organisms.	Lectures Mind mapping	Paper-based exams
1.2	Classify different parasitic groups and organisms based on their characteristics and life cycles.	Lectures Cooperative learning	Paper-based exams
2.0	<b>Skills:</b>		
2.1	Compare the different methods of infection and different parasitic groups.	Open discussion Small group activities	Paper-based exams Practical reports
2.2	Utilize concepts and basics of parasitology in economic, medical and environmental contexts.	Small group activities Cooperative learning	Assignments Practical exam
3.0	<b>Values:</b>		
3.1	Appraise initiatives in professional planning for continuous learning and specialized work.	Small group activities	Assignments

### 2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Assignments and activities: 1- Written Assignment 2- Power-point presentation	Variable	10
2	Midterm Exam	5 <sup>th</sup>	20
3	Periodic Exam	7 <sup>th</sup>	10
4	Practical Reports	Continuous	15
5	Final Practical Exam	11 <sup>th</sup>	5
6	Final Exam	12 <sup>th</sup>	40

\*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

## E. Student Academic Counseling and Support

**Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:**

6 hours per week (as defined in the teaching schedule of the faculty member) for academic advice and consultations.

Teaching staff is also available using Blackboard web site and Taif University “Edugate” System.

## F. Learning Resources and Facilities

### 1. Learning Resources

<b>Required Textbooks</b>	<ul style="list-style-type: none"> <li>• Shalaby I. M. and Banaja A. (2001). Medically important parasites. Taif University Press.</li> <li>• Parasitology. Susan E Little. (2008). UBM Americas. ISBN: 8750-7943.</li> </ul>
<b>Essential References Materials</b>	<ul style="list-style-type: none"> <li>• Parasitology. José Vázquez. (2004). National Association of Biology Teachers. ISBN: 0002-7685</li> <li>• Ramadan N. F. and Mohammed S.H. (2010). Protozoa. Taif University Press.</li> </ul>
<b>Electronic Materials</b>	Blackboard website Website of Saudi digital Library
<b>Other Learning Materials</b>	Digital programs and professional software

### 2. Facilities Required

Item	Resources
<b>Accommodation</b> (Classrooms, laboratories, demonstration rooms/labs, etc.)	<ul style="list-style-type: none"> <li>- Classrooms for more than 40 students\lecture.</li> <li>- Laboratory for more than 20 students\ lab activity.</li> </ul>
<b>Technology Resources</b> (AV, data show, Smart Board, software, etc.)	<ul style="list-style-type: none"> <li>- Data show.</li> <li>- PCs or laptops for the staff members.</li> </ul>
<b>Other Resources</b> (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	<ul style="list-style-type: none"> <li>- Slide projector.</li> <li>- Permanent slides.</li> <li>- Preserved specimens.</li> </ul>

## G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	Indirect
Quality of learning resources	Peer Reviewer Students	Direct Indirect
Extent of achieving the course learning outcomes	Peer Reviewer Students	Direct Indirect

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

**Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

**Assessment Methods** (Direct, Indirect)

## H. Specification Approval Data

<b>Council / Committee</b>	<b>Biology Department</b>
<b>Reference No.</b>	<b>Committee number no. 14 - Academic Year 1442-1443H</b>
<b>Date</b>	<b>22-5-2022G- 23-10-1443H</b>