ATTACHMENT 5.

T6. COURSE SPECIFICATIONS (CS)

هيئة تقويم التعليم
Education Evaluation Commission

Course Specifications

Institution: **Tabuk University**	Date: **10\8\1440**
College/Department : **Science / Biology**	

A. Course Identification and General Information

1. Course title and code: **Parasitology (BIO 451)**
2. Credit hours: **(3)**
3. Program(s) in which the course is offered.
(If general elective available in many programs indicate this rather than list programs)
Biology Program
4. Name of faculty member responsible for the course **Dr. Wafaa Mohamed Hikal**
5. Level/year at which this course is offered: **Level Eight**
6. Pre-requisites for this course (if any): **General Zoology-1, BIO 251**
7. Co-requisites for this course (if any): **None**
8. Location if not on main campus: **N.A.**
9. Mode of Instruction (mark all that apply):

a. traditional classroom	√	What percentage?	75
b. blended (traditional and online)		What percentage?	
c. e-learning		What percentage?	
d. correspondence		What percentage?	
f. other (Lab work)	√	What percentage?	25

Comments:

B Objectives

1. What is the main purpose for this course?

This course aims to the following learning outcomes:

I- Introduction to Parasitology:

By the end of Parasitology course, the student should be able to:

1. Know the general taxonomy of the parasites.
2. Definitions of parasitism, hosts, types of parasites, types of hosts.
3. Sources of infections and portals of entry.
4. Diagnostic methods of different parasites.

II- Protozoa:

By the end of the Parasitology course, the student should be able to know the Taxonomy, Habitat, Morphology, Life cycle, Pathogenicity, Diagnosis and Control of some of Protozoan parasites of medical importance.

III- Helminthes:

By the end of parasitology course, the student should be able to know the Taxonomy, Habitat, Morphology, Life cycle, Pathogenicity, Diagnosis and Control of:

1. Trematodes of medical importance.
2. Cestodes of medical importance.
3. Nematodes of medical importance.

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

Many apparatus must be present in the lab for good job and make other applications

· Annual review of the course by the departmental course planning committee.

 Rely on some of the references available on the Internet.

 The use of several Internet sites to obtain data for epidemics in different regions of the world and some of the programs that are used to record and calculate ratios and morbidity.

Comparison of course topics with equivalent local and international courses.

C. Course Description (Note: General description in the form used in Bulletin or handbook)

Course Description:

- The course includes an introduction to Parasitology, their taxonomic position and importance, types of parasites and hosts, source way of infection, host-parasite relationship, examples of some parasites infecting human and animals; their taxonomy, biology, diagnosis and control.

1. Topics to be Covered

List of Topics	No. of Weeks	Contact hours
Introduction to Parasitology:	**1**	**3**
General taxonomy of parasites of medical importance	**1**	**3**
Types of parasites and types of hosts **Sources of infection and portals of entry**	**1**	**3**
Host-parasite relationships	**1**	**3**
Protozoa **Taxonomy, Habitat, Morphology, Life cycle, Pathogenicity, Diagnosis and Control of the following protozoa: The Amoebae: (*Entamoeba histolytica*).**	**1**	**3**
The blood flagellates: (*Leishmania* spp.). **The Ciliates: (*Balantidium coli*).**	**1**	**3**
The Sporozoa: *Plasmodium spp.* **(Malaria parasites).**	**1**	**3**
Revision and Pre Final Exam		
Helminthes: **Taxonomy, Habitat, Morphology, Life cycle, Pathogenicity, Diagnosis and Control of Trematodes, Cestodes and Nematodes of medical importance such as:** **Cestodes:** **Intestinal Cestodes:, *Taenia saginata, Taenia solium***	**1**	**3**
Trematodes: **-Blood flukes: *Schistosoma haematobium, Schistosoma mansoni* & *Schistosoma japonicum*.**	**1**	**3**
Nematodes: **- Intestinal nematodes: *Ascaris lumbricoides*.**	**1**	**3**
Nematodes: **-Hookworms: *Ancylostoma duodenale***	**1**	**3**
Insecta (Medical entomology)	**1**	**3**
Final Exam		

2. Course components (total contact hours and credits per semester):

		Lecture	Tutorial	Laboratory/ Studio	Practical	Other:	Total
Contact Hours	Planed	**26**			**26**		**52**
	Actual						
Credit	Planed	**2**			**1**		**3**
	Actual						

3. Additional private study/learning hours expected for students per week. **None**

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	**Knowledge**		
1. 1	**Describing the basics of parasitology.**	**Lectures**	**Oral discussion**
1. 2	**Record of all the update researches in the field**	**Activities in subject related to the course study**	**Periodic exams**
1.3	**The benefits of the recent research scientific exchange**		**Some home work**
1.4	**Write the reports for the course**		
2.0	**Cognitive Skills**		
2.1	**Collect data from of internet and computer programs**	**Practical studies**	**Oral discussion**
2.2	**Explain how to make search in the internet**	**Using visual tools in teaching**	**Discussion panel**
2.3	**Learning more about using the library system**		**Periodic exam**
3.0	**Interpersonal Skills & Responsibility**		
3.1	**Work in groups**	**Homework related to the recent research**	**Observation of students**

			behavior during project execution
3.2	Respect the views of other students.	Practical project of student	Project discussion
3.3	**Accept others**		**Project discussion**
4.0	**Communication, Information Technology, Numerical**		
4.1	**Work in a team**	**Teaching by giving practical examples**	**Exams and practices**
4.2	Calculate ratios and statistical parameters.		
4.3	**Record data.**	**Give homework and practice for student**	
5.0	**Psychomotor**		
	NON		

5. Schedule of Assessment Tasks for Students During the Semester

	Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	**Quiz**	**5**	**10%**
2	**Mid-term lab Exam**	**8**	**10%**
3	**Final lab Exam**	**15**	**15%**
4	**Midterm Theory Exam**	**8**	**25%**
5	**Final Theory Exam**	**16**	**40%**

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

- **Office hours: 10 hours / week**
- **Academic Guidance for about 20 students as determined by admission and registration.**
- **Direct supervision of staff for lab works.**
- **Electronic communication through university web page and e-mail.**

E Learning Resources

1. List Required Textbooks

Text book of Zoology, Sixth Edition
Biology, (Concepts & Connections) Sixth Edition.

2. List Essential References Materials (Journals, Reports, etc.)
- Not Applicable

3. List Electronic Materials, Web Sites, Facebook, Twitter, etc.
4. Other learning material such as computer-based programs/CD, professional standards or regulations and software. **AltaVista, Google, yahoo search**
5. Other learning material such as computer-based programs/CD, professional standards or regulations and software. **www.sciencedirect.com**

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access, etc.)
1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) **Available laboratory accommodate up to 30 students.**
2. Technology resources (AV, data show, Smart Board, software, etc.) **Well equipped lab and lecture room with computers and display screens installed with curtains on the windows are required Data show and lab top**
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) **A number of computers should be available for students.** **Office hours Student meeting E. mail**

G Course Evaluation and Improvement Processes

1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching • Questionnaires. **Direct meetings between students and faculty members** **Oral exam** **Written exam** **Practical exam**
2. Other Strategies for Evaluation of Teaching by the Instructor or by the Department **Peer consultation by departmental course committee Questionnaires.** **Direct meetings between students and faculty members** **Self evaluation.** **Faculty member evaluation.** **Annual report**
3. Processes for Improvement of Teaching **Discussion sessions with colleagues and the Quality Assurance Committee of the department and faculty.** **Following-up events in the Kingdom, which may lead to the emergence of some epidemic cases (Floods, Hajj and Umrah, for example).** **Implementation of suggestions by the administration** **Implementation of suggestions by departmental course committee.** **Monitoring of teaching activates by the administration.**

4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution) **• Reviewing assessments by staff member/chairman/special committee when required and instructed by higher administration at the end of each semester.**
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement. **Scheduled comparison with similar courses on the local and global level.** **Review content periodically by the Committee on development of the department.** **Using statistics of student questionnaires to assess course to improve the quality of course**

Name of Course Instructor: Dr. Wafaa Mohamed Hikal

Signature: *Wafaa Hikal* Date Specification Completed: 10\8\1440

Program Coordinator: **Dr. Omar Salem Obeid Bahattab**

Signature: *Omar Bahattab* Date Received: 16/8/1440