



Course Specifications

Course Title:	Diagnostic Parasitology
Course Code:	373321-3
Program:	Bachelor's in Clinical Laboratory Sciences (Level-7)
Department:	Clinical Laboratory Sciences
College:	Applied Medical Sciences
Institution:	Taif University



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A. Course Identification

1. Credit hours: 3 hours			
2. Course type			
a.	University <input type="checkbox"/>	College <input type="checkbox"/>	Department <input checked="" type="checkbox"/>
b.	Required <input checked="" type="checkbox"/>	Elective <input type="checkbox"/>	Others <input type="checkbox"/>
3. Level/year at which this course is offered: Level 6/Third Year			
4. Pre-requisites for this course (if any): Basic of Medical Microbiology (373228-3)			
5. Co-requisites for this course (if any): None			

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	4 hours /week= 60 hours/semester	100%
2	Blended	None	0%
3	E-learning	None	0%
4	Correspondence	None	0%
5	Other	None	0%

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	30
2	Laboratory/Studio	30
3	Tutorial	None
4	Others (specify)	None
	Total	60
Other Learning Hours*		
1	Study	46
2	Assignments	None
3	Library	None
4	Projects/Research Essays/Theses	None
5	Others(specify)Poster	4
	Total	110

*The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

This course offers types of parasites those infect humans, pathogenicity together with a brief clinical description and determining suitable clinical specimens for laboratory diagnosis using microscopy, immunoassays as well as molecular diagnosis.

2. Course Main Objective

By the end of this course, students will gain adequate knowledge regarding human parasites in terms of distinct classes, pathology, pathogenicity, transmission and laboratory diagnosis and will be able to select proper diagnostic tests and interpret the results. They will also be able to do different parasitological diagnostic techniques both independently and in groups.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
1.1	To define the ways underlying infections with different parasites of medical importance to human in terms of classification, morphology, pathology and pathogenesis	K1
1.2	To identify the laboratory tests/methods commonly used in diagnosis of different parasitic infections	K2
2	Skills :	
2.1	To select the most appropriate clinical specimen(s) and laboratory test(s) used for diagnosis of different parasitic infections based on the patients clinical presentation	S1
2.2	To interpret laboratory test finding(s) and correlate it (them) with the patient's clinical picture(s).	S2
3	Competence:	
3.1	To perform different parasitological laboratory tests in safe and effective way	C1

C (a) Course Content(Theory)

No	List of Topics	Contact Hours
1	Introduction to Diagnostic Parasitology (Terms, parasite, hosts)	2
2	Introduction to Diagnostic Parasitology (zoonosis, pathology, pathogenesis)	2
3	Trematodes: General Characteristics of flat worms: Schistosomiasis	2
4	Trematodes: (liver and intestinal flukes)	2
5	Cestodes: General Characteristics: Fish Tapeworm	2
6.	Cestodes: Taeniasis and Cysticercosis	2
7	Cestodes: Hydatid cyst and Hymenolepsiasis	2
8	Nematodes: General Characters and classification: Ascaris Lumbricoides	2
9	Nematodes: Hookworm, whipworm and pinworm infections	2
10	Nematodes: Wuchereria bancrofti (lymphatic filariasis)	2
11	Protozoa: General Characters and classification: Ameobiasis and	2

	Giardiasis	
12	Intestinal protozoa: Coccidian parasites and Trichomoniasis	2
13	Extra-intestinal protozoa: Malaria	3
14	Extra-intestinal protozoa: Leishmania and toxoplasma	3
Total		30

(b) Course Content (Practical)

No	List of Topics	Contact Hours
1	Laboratory safety, clinical samples, and sampling	2
2	Microscopy (structure, uses and handling)	3
3	Stool concentration & permanent staining techniques + Demonstration slides(Schistosoma)	3
4	Demonstration slides (liver and intestinal flukes)	2
5	Demonstration slides (Fish Tapeworm)	2
6.	Demonstration slides (Taeniasis)	2
7	Demonstration slides(Hydatid cyst and Hymenolepsiasis)	2
8	Demonstration slides(Ascaris Lumbricoides)	2
9	Demonstration slides(Hookworm, whipworm and pinworm infections)	2
10	Demonstration slides(Wuchereria bancrofti)	2
11	Demonstration slides(Ameobiasis and Giardiasis)	2
12	Demonstration slides(Coccidian parasites and Trichomoniasis)	2
13	Demonstration slides (Malaria)	2
14	Demonstration slides (Leishmania and toxoplasma)	2
Total		30

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	Knowledge		
1.1	To define the ways underlying infections with different parasites of medical importance to human in terms of classification, morphology, pathology and pathogenesis	- Lectures.	- Exams
1.2	To identify the laboratory tests/methods commonly used in diagnosis of different parasitic infections	- Lectures. - Practical sessions	- Exams
2.0	Skills		

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
2.1	To select the most appropriate clinical specimen(s) and laboratory test(s) used for diagnosis of different parasitic infections based on the patient's clinical presentation	<ul style="list-style-type: none"> - Lectures. - Practical sessions. 	<ul style="list-style-type: none"> - Exams - Lab reports
2.2	To interpret laboratory test finding(s) and correlate it (them) with the patient's clinical picture(s).	<ul style="list-style-type: none"> - Lectures - Practical sessions. - Problem based learning. 	<ul style="list-style-type: none"> - Exams.
3.0	Competence		
3.1	To perform different parasitological laboratory tests in safe and effective way.	<ul style="list-style-type: none"> - Practical sessions 	<ul style="list-style-type: none"> - OSPE

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Mid-Term Exam	8 th Week	15%
2	Activity	Throughout the semester	5%
3	Practical Report	Throughout the semester	10%
4	Final Practical Exam	16 th Week	20%
5	Final Exam	17 th , 18 th Week	50%
6	Total		100%

*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:

- Course instructors are available for individual consultation in their free time. They are usually full-time permanent members present on-campus from 8:00 am to 2:30 pm on all working days. Appointments can be made in person with the instructor through email etc. Days and time availability of each instructor are posted on their doors. Course instructors provide a range of academic and course management advice including course planning and its progression.
- Each student at the department of Clinical Laboratory Sciences has an academic adviser who is available for individual consultation and guidance. Appointments can be made in person with the instructor through email etc. Days and time availability of each adviser are posted on their doors. The academic adviser can provide support with time management, exam preparation, clarification of subject requirements, feedback on performance and dealing with personal issues as well.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	Markell and Voge. Medical Parasitology 9 th Edition, 2006 Baron, Ellen Jo. Manual of Clinical Microbiology 9th Edition, 2007
Essential References Materials	None
Electronic Materials	Websites, Search engines (Saudi Digital Library, PubMed, Google Scholar)
Other Learning Materials	Journals, Scientific Magazines and Articles.

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classrooms and Laboratories
Technology Resources (AV, data show, Smart Board, software, etc.)	Data show, Blackboard and A/V
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	None

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Student's feedback on effectiveness of teaching and quality of courses.	Students	Indirect: Questionnaire Survey at the end of each semester.
Alignment map of course ILOs with that of program ILOs.	Development and accreditation committee	Direct: Student's Performance
Availability of learning resources, facilities and equipments related to each course.	Students and faculty	Indirect: Questionnaire Survey at the end of each semester.
Evaluation of teaching	Peer evaluators	Direct: Peer evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Standard of student achievement	Examination Committee	Direct: Students grades
Periodical review of course effectiveness and planning for its improvement.	Teaching staff/ Development and accreditation committee	Indirect: Review by Department Committee

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

Council / Committee	Department meeting
Reference No.	Meeting No.10
Date	10-9-1440

