

Course Specification

Parasitology

1. General information

Course Title	Parasitology
Code No.	PR734
Department	Parasitology
Teaching Hours	120hrs.
Language	English
Academic Year	Third Year
Course Coordinator	Dr. Jadallah Deriak
Date and Signature	September 2020

1.1 . Number of hours per week.

Lectures: 3hrs.

Laboratory: 2 hrs.

Tutorial: 1 hr.

Total: 6hrs.

2. Objectives of Course:

- Provide the student with knowledge about biological and epidemiological aspects of medically important parasites.
- Enable the student to understand the pathogenesis ,clinical presentation and complications of these parasitic disease.
- Enable the student to define the appropriate diagnostic method ,drug of choice and preventive measures.
- Make the student fully aware of the endemic and national parasitic problems as well as those encountered in immigrant workers.

3. Intending Learning Outcomes (ILOs):

a. Knowledge and Understanding:

On successful completion of the course, student will be able to:

a.1	Identify the parasite geographical distribution and understand the economic and epidemiological factors responsible for endemicity of important parasitic diseases.
a.2	Describe the diagnostic morphology, life cycle of parasite and understand their relation to the pathogenesis and the role of immune system in parasitology.
a.3	State the clinical symptoms and signs, possible complications and understand the mechanism of their pathogenesis.
a.4	Describe the diagnostic stage and the methods for standard and accurate diagnosis
a.5	Outline the effective therapy and identify the drug of choice.
a.6	Define the personal protection measures and understand their relation to the mode of infection.
a.7	Classify medically important arthropods, their diagnostic morphology, biology, diseases transmitted or caused by them and combat measures.

b. Intellectual skills:

On successful completion of the course, student will be able to:

b.1	Interpret the important symptoms and signs caused by different parasitic infections, including the differential diagnostic possibilities.
b.2	Choose the appropriate and cost-effective diagnostic laboratory investigation to confirm the final diagnosis.
b.3	Make comprehensive comparisons of closely related parasites or species.
b.4	Solve clinical problems using case study.

c. Practical and Professional Skills:

On successful completion of the course, student will be able to:

c.1	Categorize microscopically different parasites, particularly their diagnostic stages including adult or its parts, characteristic egg, larva, cyst, trophozoite present in stool, urine, etc.
c.2	Examine blood films to recognize extra and intracellular parasites.
c.3	Identify parasites in mounted tissue smears or biopsies.
c.4	Recognize parasites grossly in jars.
c.5	Classify pathogenic arthropods as whole or parts, microscopically or grossly in box.

d. General and Transferable skills:

On successful completion of the course, student will be able to:

d.1	React positively and knowledgeably with any national campaign to face any endo-epidemic parasitic health problem, like cutaneous Leishmaniasis.
d.2	Perform health education, particularly giving advice about mode of infection and ways of personal protection, etc.
d.3	Acquire integrated and respectful team behavior (all for one and one for all), in any multi-disciplinary work aiming at solving community parasitic problems.
d.4	Utilize IT skills to present clear and scientific work.

4. Course Contents:

Academic Subject	Total Hours (120)	Lectures	Laboratory	Tutorials
Introduction	2	2	--	--
Helminthology	54	30	14	10
Protozoology	45	28	10	7
Entomology	12	6	4	2
Miscellaneous	7	4	2	1

5. Teaching and Learning Methods :

- Formal Lectures
- Practical sessions
- Tutorials

6. Evaluation Methods

Evaluation Method	Date	Marks 100	%	ILOs Assessed
1	Annual Work	20	20%	
	▪ Mid-year Exam	15		Knowledge, understanding and intellectual skills
	▪ Quizzes & Assignments	5		Knowledge, understanding and intellectual skills
2	Final Exam	80	80%	
	▪ Written	50		Knowledge, understanding and intellectual skills
	▪ Practical	20		knowledge, understanding and intellectual skills Practical and professional skills General and transferable skills
	▪ Oral	10		Knowledge, understanding and intellectual skills Professional, general and transferable skills

7. Evaluation Schedule:

Evaluation	Date
Mid-term written exam: True & False questions & MCQs with case studies Essay Questions, Matching and complete the blanks	January
Final written exam: True & False questions, MCQs with case studies Essay Questions, Matching and complete the blanks	June
Practical exam.	June
Oral examination	June
Participation (discussions, assignments/ continuous assessment exam.....etc.)	Daily-Monthly

8. References:

Reference title	Publisher	Edition	Author	Place
Course Handout			Department Staff	Library
Basic Clinical Parasitology	Appleton & Lange	6 th	Neva, F.A. and Brown, H.W.	
Medical Parasitology	W.B. Saunders Co.	7 th	Markell, E.K.; Voge, M.	
Academic journal	Annals of Tropical Medicine and Parasitology. Parasitology Today. Journal of Tropical Medicine and Hygiene Parasitology Online			
Internet websites	http://www.dpd.cdc.gov/dpdx http://www.asp.unl.edu http://www.parasitology.org.uk			

9. Required Facilities:

Required Facilities	Comments
Lecture hall	With data show, overhead and white board.
Equipped laboratory	With enough microscopes, slide projector ,overhead projector and data show.
Faculty library	Provided with textbooks, journals and internet connection and computers.

Course Coordinator: Dr. Jadallah Deriak

Signature:

Programme Coordinator: Dr. Hussain Amaigil

Signature:

Head of Department: Dr. Jadallah Deriak

Signature:

Date: September 2010

Course ILOs Mapping Matrix – Parasitology

Topic	Knowledge and Understanding a							Intellectual Skills b				Practical and Professional Skills c					General and Transferable Skills d				
	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	4	
Introduction	x																			x	x
Helminthology	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Protozoology	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Entomology	x		x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Miscellaneous	x	x						x	x	x	x		x		x		x	x	x	x	x